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Summary and Bibliography of Safety-Related Events at Boiling-Water Nuclear Power Plants as Reported in 1980

K. E. McCormack
R. B. Gallaher

Prepared for the U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Under Interagency Agreements DOE 40-551-75 and 40-552-75

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SUMMARY AND BIBLIOGRAPHY OF SAFETY-RELATED EVENTS AT BOILING-WATER NUCLEAR POWER PLANTS AS REPORTED IN 1980

K. E. McCormack
R. B. Gallaher

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FOREWORD

The Nuclear Safety Information Center (NSIC), which was established in March 1963 at Oak Ridge National Laboratory, is sponsored by the U.S. Nuclear Regulatory Commission's Office of Analysis and Evaluation of Operational Data. Support for the technical progress review *Nuclear Safety* (see last page of this report) is provided by both the Breeder Reactor and Light-Water-Reactor Safety Programs of the Department of Energy. NSIC is a focal point for the collection, storage, evaluation, and dissemination of operational safety information to aid those concerned with the analysis, design, and operation of nuclear facilities. The Center prepares reports and bibliographies as listed on the inside covers of this document. NSIC has developed a system of keywords to index the information it catalogs. The title, author, installation, abstract, and keywords for each document reviewed are recorded at the central computing facility in Oak Ridge.

Computer programs have been developed that enable NSIC to (1) prepare monthly reports with indexed summaries of Licensee Event Reports, (2) make retrospective searches of the stored references, and (3) produce topical indexed bibliographies. In addition, the Center Staff is available for consultation, and the document literature at NSIC is available for examination. NSIC reports (i.e., those with the ORNL/NSIC and ORNL/NUREG/NSIC numbers) may be purchased from the National Technical Information Service (see inside front cover). All of the above services are available free of charge to U.S. Government organizations as well as their direct contractors. Persons interested in any of the services offered by NSIC should address inquiries to:

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PREVIOUS REPORTS IN THIS SERIES

1. W. R. Casto and E. N. Cramer, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1967 and 1968*, ORNL/NSIC-69 (July 1970).

2. R. L. Scott and W. R. Casto, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1969*, ORNL/NSIC-87 (August 1971).

3. R. L. Scott, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1970*, ORNL/NSIC-91 (December 1971).

4. R. L. Scott and R. B. Gallaher, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1971*, ORNL/NSIC-106 (September 1972).

5. R. L. Scott and R. B. Gallaher, *Safety-Related Occurrences in Nuclear Facilities as Reported in 1972*, ORNL/NSIC-109 (December 1973).

6. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Nuclear Power Plants as Reported in 1973*, ORNL/NSIC-144 (November 1974).

7. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Nuclear Power Plants as Reported in 1974*, ORNL/NSIC-122 (May 1975).

8. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Boiling-Water Nuclear Power Plants as Reported in 1976*, ORNL/NUREG/NSIC-126 (July 1975).

9. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Pressurized-Water Nuclear Power Plants as Reported in 1975*, ORNL/NUREG/NSIC-127 (July 1976).

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11. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Occurrences in Pressurized-Water Nuclear Power Plants as Reported in 1976*, ORNL/NUREG/NSIC-138 (July 1977).

12. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Events in Boiling-Water Nuclear Power Plants as Reported in 1977*, ORNL/NUREG/NSIC-149 (November 1978).

13. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Events in Pressurized-Water Nuclear Power Plants as Reported in 1977*, ORNL/NUREG/NSIC-150 (November 1978).

14. R. L. Scott and R. B. Gallaher, *Annotated Bibliography of Safety-Related Events at Boiling-Water Nuclear Power Plants as Reported in 1978*, ORNL/NUREG/NSIC-164 (September 1979).

15. R. L. Scott and R. B. Gallaher, *Summary and Bibliography of Safety-Related Events at Pressurized-Water Nuclear Power Plants as Reported in 1978*, ORNL/NUREG/NSIC-165 (September 1979).

16. R. L. Scott and R. B. Gallaher, *Summary and Bibliography of Safety-Related Events at Boiling-Water Nuclear Power Plants as Reported in 1979*, ORNL/NUREG/NSIC-178 (June 1981).

17. R. L. Scott and R. B. Gallaher, *Summary and Bibliography of Safety-Related Events at Pressurized-Water Nuclear Power Plants as Reported in 1979*, ORNL/NUREG/NSIC-179 (July 1981).

SUMMARY AND BIBLIOGRAPHY OF SAFETY-RELATED EVENTS AT BOILING-WATER NUCLEAR POWER PLANTS AS REPORTED IN 1980

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ABSTRACT

This document presents a bibliography that contains 100-word abstracts of event reports submitted to the U.S. Nuclear Regulatory Commission concerning operational events that occurred at boiling-water-reactor nuclear power plants in 1980. The 1547 abstracts included on microfiche in this bibliography describe incidents, failures, and design or construction deficiencies that were experienced at the facilities. These abstracts are arranged alphabetically by reactor name and then chronologically for each reactor. Full-size keyword and permuted-title indexes to facilitate location of individual abstracts are provided following the text. Tables that summarize the information contained in the bibliography are also provided. The information in the tables includes a listing of the equipment items involved in the reported events and the associated number of reports for each item. Similar information is given for the various kinds of instrumentation and systems, causes of failures, deficiencies noted, and the time of occurrence (i.e., during refueling, operation, testing, or construction). Some of the more interesting events that occurred during the year are reviewed in detail.

INTRODUCTION

The Nuclear Safety Information Center (NSIC) has collected, reviewed, and/or published reports of safety-related reactor operational events since its inception in March 1963. During this same year, the Atomic Energy Commission (AEC) Division of Operational Safety started disseminating information on unusual reactor operating experiences in memorandum form. The first collection of this type of reactor operating experiences [disseminated by the AEC and later by the U.S. Nuclear Regulatory Commission (NRC)] was published by NSIC[1] covering the years 1963, 1964, and 1965, with subsequent publications appearing every three years.[2-5]

In 1968, a second series of reports presenting this type of information was started with the publication of a journal article on safety-related events obtained from the NSIC computerized file of events reported in 1966 by the licensees of nuclear facilities.[6] These events are now also known as reportable occurrences or licensee events. This series has continued with publications appearing each year.[7-23] However, the number

of event reports has increased tremendously each year; in the 1966 compilation,[6] 76 events were reported for all types of reactors, including research and development reactors. However, for the 1973 events, the compilation had to be restricted to events that occurred at nuclear power plants only, because the number of events had increased to 1053 (Ref. 12). For the 1975 events, this series was further restricted to events at boiling-water reactor (BWR) and pressurized-water reactor (PWR) nuclear power plants. At this point, two publications were required because 1169 events occurred for the BWRs and 1097 events for the PWRs.[14,15] Two publications have been issued each year since 1975 to report the BWR and PWR events: the 1980 compilation contains 1547 events for the BWRs (this report) and 2166 for the PWRs.[24]

Of special note is a report prepared by NSIC for the President's Commission on the Accident at Three Mile Island. This compilation and summary of the more serious reactor accidents from 1952 to 1979 deals with power reactors as well as experimental research and production reactors.[25]

This report [along with ORNL/NSIC-196 (Ref. 24)] is the 13th in a series issued annually by the NSIC presenting abstracts of reports of safety-related events submitted during the year to the NRC by the licensees of light-water reactors in the United States. In particular, the report contains abstracts of 1547 events reported in 1980. The abstracts are presented on microfiche, which are filed in an envelope attached to the back cover of the report.

Statistical data obtained from a review of the event reports are discussed and summarized in the tables in the following sections. The summarized information includes a listing of equipment items and the number of reports (events) in which each item was involved. Similar information is given for instrumentation, safety-related systems, causes of failures, types of deficiencies, type of personnel involved, and the time of occurrence (i.e., construction, refueling, operation, or testing). Selected events are also reviewed in detail because of their relevance to the safe operation and performance of nuclear plants.

The reports of safety-related events abstracted in the bibliography were submitted by power plant licensees to the NRC in accordance with federal regulations. The reporting requirements for nuclear facility licensees are included in Title 10, *Code of Federal Regulations*, Parts 20, 40, 50, 70, and 73 (Ref. 26). The *NRC Regulatory Guide 10.1*, Revision 3, May 1977 (Ref. 27), presents a compilation of the reporting requirements for persons subject to NRC regulations. Reporting of operating information is described in detail in *NRC Regulatory Guide No. 1.16* (Ref. 28). The requirements for reporting design or construction deficiencies in nuclear facilities that have been granted construction permits are given in Title 10, *Code of Federal Regulations*, Part 50, Section 55, Paragraph e (1 through 3) (Ref. 29).

The information for this report was obtained from the NSIC computer files in the form of 100-word abstracts of the reports submitted by the reactor licensees. The abstracts, with appropriate keywords used for computer storage and retrieval, were prepared by technical specialists at NSIC. Input to the computer is a continuing process; therefore, persons desiring an update of the information on operating experiences at nuclear power plants may obtain a literature search by contacting the NSIC.

The NSIC computer also provides a bimonthly printout of those events that resulted in reactor shutdown and their causes; this information is included in each issue of the bimonthly journal, *Nuclear Safety*.

The abstracts in this report are arranged alphabetically by reactor name and then chronologically for each reactor. In addition to the abstracts describing each event, full-size keyword and permuted-title indexes are provided for quick location of the abstracts in which a particular item is discussed. For example, persons interested in the problems experienced with diesel generators can find the relevant abstracts listed under the keyword *generator, diesel;* or using the permuted-title index, they can find the abstracts with the word *diesel* or the word *generator* in the title of the article. In the keyword index, some keywords appear twice, once with an asterisk and once without an asterisk. Asterisked keywords indicate that the reports (indicated by the accession number and page) discuss the keyword item in more detail than the reports listed under a nonasterisked keyword. The asterisk is also used to indicate that the keyword item actually failed, whereas a keyword item without an asterisk indicates that the keyword item was involved in an event but did not necessarily fail.

Before reviewing the bibliography, it may be helpful to review "Method of Indexing Licensee Event Reports" (p. 153), which shows a typical abstract with its component parts identified. Note that the list of keywords gives a quick indication of the content of the abstract. The availability of the original material is indicated (i.e., the NRC Public Document Room, 1717 H Street, Washington, DC 20555).

SUMMARY OF SAFETY-RELATED EVENT DATA

The 1547 abstracts in the bibliography were reviewed, and tabulations were made of significant items to indicate the total number of reports concerned with those items. These tabulations indicate items that should receive more attention by reactor operators, designers, or other interested parties.

Table 1 lists the number of reports concerned with the various systems. As in 1976, 1977, and 1978, the system most frequently reported on was the main cooling system. Major or safety-related systems were reported on more often than the less important systems; however, this occurrence only reflects the attention given to these major systems by the utilities in the form of surveillance testing as well as the emphasis that the NRC has placed on these systems in its reporting requirements. The total number of reports shown in Table 1 exceeds the total number of 1980 reports submitted by the licensees because, in some reports, more than one system may have been involved in the event. (Systems involved in <1% of the total number of reports are not listed.)

Table 2 lists the number of reports concerned with various items of equipment. This year, as in previous years, valves, piping, and pumps were the equipment items for which the most licensee event reports (LERs) were submitted. These three items alone were involved in 45% of the events reported. The total number of reports shown in this table exceeds the total number of 1980 reports submitted by the licensees because, in some reports, more than one item of equipment may have been involved in

Table 1. Reports concerned with listed systems

System	Number of reports	Percent of total
Main cooling	146	9
Steam	133	8
Electric power	127	8
High-pressure coolant injection	125	8
Reactor protection	111	7
Shut-down cooling	105	7
Containment isolation	101	6
Containment	96	6
Reactor core isolation cooling	96	6
Radiation monitoring	68	4
Fire protection	59	4
Emergency electric power	59	4
Service water	56	4
Core spray	53	4
Low-pressure coolant injection	42	3
Ventilation	40	3
Engineered safety features	39	3
Coolant purification	28	2
Standby gas treatment	22	1
Feedwater	16	1
Pneumatic	16	1

Table 2. Reports concerned with listed equipment

System	Number of reports	Percent of total
Valves	398	26
Pumps	160	10
Pipes and fittings	135	9
Valve operators	128	8
Turns	89	6
Seals	78	5
Cables and connectors	73	5
Pressure vessels	72	5
Turbines	71	5
Breakers	61	4
Internal combustion engines	60	4
Control rod drives	56	4
Diesel generators	54	3
Control rods	46	3
Fasteners	38	2
Storage container	37	2
Shock absorbers	35	2
Motors	34	2
Solenoids	31	2
Buildings	28	2
Containment vacuum breakers	25	1
Check valves	24	1
Heat exchangers	23	1
Filters	17	1

the event. (Equipment items involved in <1% of the total number of reports are not listed).

Table 3 is a list of various kinds of instrumentation that presented problems during the year and the number of reports concerned with each item. Since 1971 when similar tables were first prepared, switches, accounting for more malfunctions than any other instrument, have been at the top of the list. Apparently, the reason for this is the large number of switches in safety-related systems as well as their delicacy and sensitivity. Various monitors and sensors account for most of the remaining reports concerned with instrumentation problems. (Items involved in <1% of the events were not listed.)

Table 3. Reports concerned with the listed instrumentation

Instrumentation	Number of reports	Percent of total
Switch	272	18
Pressure sensors	134	9
Level sensors	90	6
Radiation monitors	63	4
Relays	63	4
Position instrument	40	3
Flow sensors	36	2
Electronic function units	33	2
Recorders	31	2
Temperature sensors	29	2
Alarms	20	1

Table 4 lists the identified causes of the safety-related events reported and the number of reports concerned with each cause. Fifty-eight percent of the events involved were inherent failures; these failures were caused by a natural means or essential character of the equipment item (e.g., unexplained set-point drift of an instrument, spurious trips, aging, and wear). A few of these characteristics are given in Table 5, which lists deficiencies and the associated number of reports submitted. Set-point drift and leakage were the most frequently reported items, followed by procedural deficiencies. Procedural deficiencies most frequently involved inadequate procedures, but failure of operators to follow procedures is also included. Deficiency in communication covers those events involving a misunderstanding between personnel; it also includes misinterpretation of procedures or technical specifications.

Many reports noted a deficiency but did not give the cause. For example, many reports discussed leaks and their repair, but did not discuss causes of the leaks. The deficiency listed as "Testing" in Table 5

Table 4. Reports concerned with the listed cause of safety-related events

Cause	Number of reports	Percent of total
Inherent failure	901	58
Operator error	107	7
Design error	106	7
Maintenance error	92	6
Administrative control error	90	6
Installation error	66	4
Construction error	51	3
Fabrication error	21	1

Table 5. Reports concerned with the listed deficiency

Deficiency	Number of reports	Percent of total
Set-point drift	236	15
Leak	140	9
Procedures	99	6
Test interval	64	4
Crud	61	4
Testing	55	4
Abnormal instrument indication	54	3
Instrument calibration	52	3
Wear	45	3
Crack	43	3
Lubrication	30	2
Age effect	29	2
Welds	27	2
Corrosion	24	2
Vibration	18	1
Stress corrosion	9	<1
Erosion	9	<1
Obstruction	7	<1
Airborne release	1	<1

generally denotes that a failure or other event occurred because of testing (e.g., the wrong switch operated during a test resulted in a failure or reactor trip). "Test interval" indicates the failure of personnel to perform a test within the required time interval between surveillance testing; it does *not* indicate an equipment failure.

Table 6 lists the various time periods in which the off-normal events took place and the associated number of reports. The 611 events that were discovered (or occurring) during testing could be remedied with little or no effect on operation, and most of these did occur during operation. The number listed for "operation" was determined by subtracting the verified numbers for testing, refueling, and construction.

Table 7 lists the types of personnel involved in the events and the number of reports that identified the type of personnel. Many reports did not make this identification.

Table 8 lists alphabetically the nuclear reactor units from which reports were received and the associated number of reports per unit. Only those units that were in commercial operation all year are listed. The total number of units listed is 25. For those 25 units that were in commercial operation all year, there are 1541 reports – an average of 62 reports per unit. The total number of reports listed in Table 8 is 1541, whereas the bibliography contains abstracts of 1547 reports. The reason for this discrepancy is that Humboldt Bay is not included in the table as an operating reactor.

Table 6. Reports for the listed time of occurrence of off-normal events

Time of occurrence	Number of reports	Percent of total
Testing	744	48
Operation	569	37
Refueling	233	15
Construction	1	<1

Table 7. Reports received vs types of personnel involved in events

Personnel	Number of reports	Percent of total
Licensed operators	107	7
Designers	106	7
Maintenance	95	6
Construction	51	3
Fabricators	21	1
Nonlicensed operators	20	1
Contractors	12	<1
Radiation protection	8	<1

Table 8. Reports involving the alphabetically listed unit in commercial operation all year

Name	Number of reports	Percent of total	Age (years)	Design electrical rating [net MW(e)]
Arnold	73	5	6.8	538
Big Rock Point	45	3	18.3	72
Browns Ferry 1	90	6	7.4	1065
Browns Ferry 2	57	4	6.5	1065
Browns Ferry 3	61	4	4.5	1065
Brunswick 1	104	7	4.3	821
Brunswick 2	115	7	5.9	821
Cooper	53	3	6.8	778
Dresden 2	46	3	10.9	809
Dresden 3	44	3	9.6	809
FitzPatrick	103	7	6.1	821
Hatch 1	131	8	6.3	786
Hatch 2	171	11	2.0	784
LaCrosse	17	1	12.9	50
Millstone 1	21	1	10.3	650
Monticello	31	2	10.0	545
Nine Mile Point 1	27	2	11.4	610
Oyster Creek	66	4	11.5	650
Peach Bottom 2	36	2	7.1	1065
Peach Bottom 3	33	2	6.5	1065
Pilgrim 1	96	6	8.7	655
Quad Cities 1	36	2	8.9	789
Quad Cities 2	37	2	8.8	789
Vermont Yankee	45	3	8.5	514

Tables 9 and 10 list the number of reports for the units that were commercially operable all year. Table 9 tabulates them by age, and Table 10 uses power – DER in megawatts (electrical). These tables were prepared to determine if age or power level was a factor in the number of reportable events occurring at a nuclear unit. Figures 1 and 2 are plots of the number of reports vs age and plant size, respectively.

Figure 1 indicates both visually and with a least-squares fit that some correlation exists between the number of reports and the age of the plant (i.e., as the plants get older fewer LERs are submitted). Figure 2 indicates both visually and with a least-squares fit that very little correlation exists between size and number of reports submitted. What correlation exists may be due to a correlation between size and age rather than size and number of reports. A final review of the bibliography shows that 31 of the 1547 reports indicated that a reactor shutdown occurred or was required because of equipment failure or malfunction. See Table 11 for a synopsis of these shutdowns.*

*References for Table 11 are numbers 30–36.

Table 9. Reports for listed units that were commercially operable all year (by age since first electrical generation)[a]

Name	Age[a] (years)	Number of reports	Percent of total
Dresden 1	20.9	3	<1
Big Rock Point	18.3	45	3
LaCrosse	12.9	17	1
Oyster Creek	11.5	66	4
Nine Mile Point 1	11.4	27	2
Dresden 2	10.9	46	3
Millstone 1	10.3	21	1
Monticello	10.0	31	2
Dresden 3	9.6	44	3
Quad Cities 1	8.9	36	2
Quad Cities 2	8.8	37	2
Pilgrim 1	8.7	96	6
Vermont Yankee	8.5	45	3
Browns Ferry 1	7.4	90	6
Peach Bottom 2	7.1	36	2
Arnold	6.8	73	5
Cooper	6.8	53	3
Browns Ferry 2	6.5	57	4
Peach Bottom 3	6.5	33	2
Hatch 1	6.3	131	8
FitzPatrick	6.1	103	7
Brunswick 2	5.9	115	7
Browns Ferry 3	4.5	61	4
Brunswick 1	4.3	104	7
Hatch 2	2.0	171	11

[a]Average age = 9.1; median age = 8.6.

Table 10. Reports for listed units that were commercially operable all year (by design electrical rating)[a]

Name	DER[a] [net MW(e)]	Number of reports	Percent of total
Browns Ferry 1	1065	90	6
Browns Ferry 2	1065	57	4
Browns Ferry 3	1065	61	4
Peach Bottom 2	1065	36	2
Peach Bottom 3	1065	33	2
Brunswick 1	821	104	7
Brunswick 2	821	115	7
FitzPatrick	821	103	3
Dresden 2	809	46	2
Dresden 3	809	44	3
Quad Cities 1	789	36	2
Quad Cities 2	789	37	2
Hatch 1	786	131	8
Hatch 2	784	171	11
Cooper	778	53	3
Pilgrim 1	655	96	6
Millstone 1	650	21	1
Oyster Creek	650	66	4
Nine Mile Point 1	610	27	2
Monticello	545	31	2
Arnold	538	73	5
Vermont Yankee	514	45	3
Dresden 1	200	3	<1
Big Rock Point	72	45	3
LaCrosse	50	17	1

[a]Average DER = 713; median DER = 785.

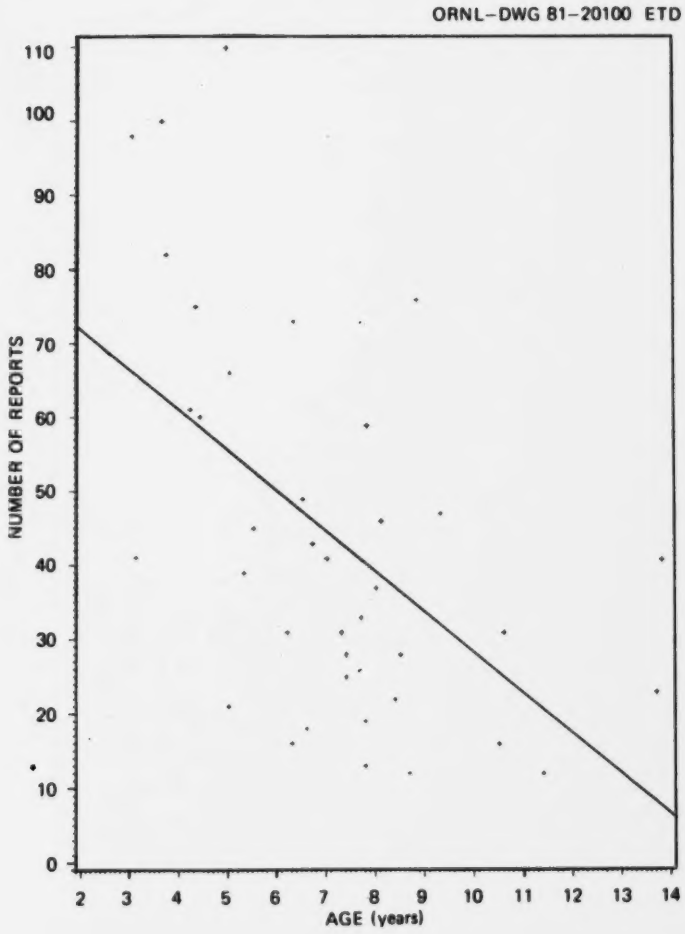

Fig. 1. Correlation between plant age and number of reports.

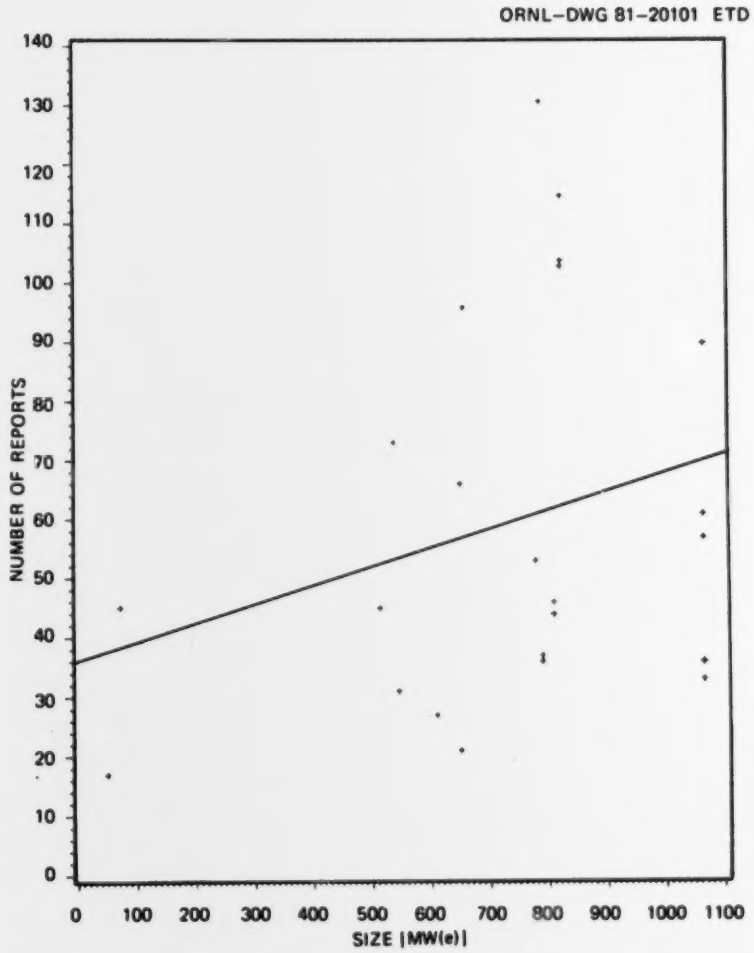

Fig. 2. Correlation between plant size and number of reports.

Table 11. Events which resulted in reactor shutdown

Report/event	Event	Cause	Component/system	Facility/docket
052780 043080	Reactor recirculation pump motor shorts	Unknown	Motors Coolant recirculation system and controls	Duane Arnold 50-331
062680 052880	Recirculation pump motor oil level is low	Unknown	Motors Coolant recirculation system and controls	Duane Arnold 50-331
112480 111080	Containment isolation valves fail to close	Wiring error during design change	Electrical conductors Containment isolation system and controls	Duane Arnold 50-331
031080 103178	Update report on control rod drive temperature	O-ring seal fabrication deficiency	Control rod drive mechanism Reactivity control system	Big Rock Point 50-135
052280 042480	Recirculation pump low oil level alarm shorts	Loss of insulation	Electrical conductors Coolant recirculation system and controls	Browns Ferry 1 50-259
071880 062480	Control valve fast-closure pressure switch miswired	Maintenance error	Instrumentation and controls Reactor trip system	Browns Ferry 1 50-259
010480 120879	Drywell to suppression chamber differential pressure out of limits	Leaking equipment hatch	Penetrations, primary containment Reactor containment system	Browns Ferry 3 50-296
101780 092080	Reactor scrams when breaker fails to close	Misalignment of breaker secondary	Circuit closers/interrupters AC on-site power system and controls	Browns Ferry 3 50-296
121380 120280	RCIC steam isolation valve leaks	Maintenance error	Valves RCIC and controls	Brunswick 2 50-324
081880 080480	Turbine computer system spuriously scrams reactor	Voltage transients due to line fault	Instrumentation and controls Off-site power system and controls	Cooper 50-298
112580 111580	Reactor cooldown rate exceeded	Steam bypass valves stay open after scram	Instrumentation and controls Turbine bypass system and controls	Cooper 50-298
022880 020280	Jet pump fails	Not yet determined	Pumps Coolant recirculation system and controls	Dresden 3 50-249
050880 042580	Automatic depress valves fail to open	Valve operator failures	Valves ECCS and controls	Dresden 3 50-249
051980 051380	Spurious HPCI initiation occurs	Not yet determined	Component code not applicable ECCS and controls	Hatch 1 50-231
020580 012280	HPCI found inoperable	Booster pump discharge pressure line leak	Pipes, fitting RCIC and controls	Hatch 1 50-321
06080 052480	Operation within a single failure criteria region discovered	Defective procedures	Valves ECCS and controls	Hatch 1 50-321
071080 062680	HPCI fails to actuate	Isolation signal due to poor turbine-speed control	Circuit closers/interrupters ECCS and controls	Hatch 1 50-321

Table 11 (continued)

Report/event	Event	Cause	Component/system	Facility/docket
080780 072080	Vacuum breaker failures force shutdown	Broken air lines and faulty air control valves	Valves Reactor containment system	Hatch 2 50-366
081380 071180	Core spray pumps actuate	High drywell pressure sensor setpoint drift	Instrumentation and controls ECCS and controls	Oyster Creek 50-219
012480 011080	ADS safety-relief valve air supply check valve leak	Design error	Valves ECCS and controls	Peach Bottom 2 50-277
090580 080680	LPCI injection valve failed to open	Cracks in drive sleeve of valve operator	Valve operators ECCS and controls	Peach Bottom 3 50-278
082880 030180	Reactor water conductivity exceeds limit	Demineralizer lateral backs out	Demineralizers Reactor coolant cleanup system and controls	Pilgrim 1 50-293
102080 100780	Reactor vessel relief valve opens spuriously	High nitrogen pressure opened relief valve	Valve operators ECCS and controls	Pilgrim 1 50-293
111480 103180	Reactor vessel relief valve opens spuriously	Failed nitrogen valve fed pressure to valve	Valves ECCS and controls	Pilgrim 1 50-293
112880 111380	Reactor vessel drain line leaks	Faulty weld	Pipes, fittings Reactor coolant cleanup system and controls	Pilgrim 1 50-293
120580 110680	Recirculation pump discharge valve leak	Valve packing leak	Valves Coolant recirculation system and controls	Pilgrim 1 50-293
092480 083180	Electromatic relief valve fails to close	Steam cutting off pilot valve	Valves Main steam system and controls	Quad Cities 1 50-254
052780 042880	Reactor coolant conductivity exceeds limit	Not determined	Demineralizers Reactor coolant cleanup system and controls	Quad Cities 1 50-265
062580 061180	Feedwater leak bypasses detection system	Design error	Other components Reactor coolant press bound leak Detection system	Vermont Yankee 50-271

REVIEW OF SELECTED SAFETY-RELATED EVENTS

A review of the reported events indicated that most of them were routine and inconsequential; however, a few were significant or unique. Three of those events are reviewed in detail in this report. The events reviewed were selected on the basis of their potential interest and/or applicability to safe operation and improved performance of nuclear power plants.

Partial Failure of Browns Ferry Scram System

On June 28, 1980, a partial failure of the scram system occurred at Browns Ferry 3 while the reactor was being shut down from 35% power to

allow repairs to the feedwater system. The malfunction had apparently been the result of water accumulating in the scram discharge volume (SDV) east header and blocking rods from fully inserting. Seventy-six out of 185 control rods failed to insert fully. The partially scrammed rods brought the reactor power level in the east side of the core to 2% after the first scram attempt. The west side of the core was subcritical. A second manual scram was initiated 6 min after the first. In all, four scram attempts over a period of 14 min were required to completely insert the control rods on the east side.

The unit remained shut down until July 13, 1980, while a series of tests were performed to determine the cause of the water accumulation in the SDV. Ultrasonic probes were installed on the SDVs to continuously monitor the water level.

No radioactivity was released to the environment during this event and no fuel damage was indicated; however, this type of occurrence could result in failure of additional control rods to insert fully in part or in all of the core on any given manual or automatic scram signal and thus has the potential to cause significant fuel damage. Core-coolant flow, temperature, and pressure remained normal for existing plant conditions.

Cause or causes

The problem has been determined to be hydraulic rather than electrical or mechanical. The control rod drives (CRDs), which insert and withdraw the attached control rods in a General Electic (GE) BWR are essentially water-driven hydraulic pistons. On a scram, a relatively high water pressure is applied to the bottom side of the piston by opening a scram inlet valve; a scram outlet valve opens to relieve water and pressure above the piston, and the rods are rapidly driven up into the reactor core. Water discharged from the 185 individual CRDs during scram insertion is collected in two separate headers, each consisting of a series of interconnected 6-in.-diam pipes (four on each side of the reactor) called the SDV. During normal operation, both SDVs are designed to remain empty by being continuously drained to a separate scram discharge instrument volume tank (SDIV). The SDVs are therefore normally ready to receive the scram discharge water when a scram occurs. This instrumented tank is monitored for water level and initiates an automatic scram on high level, in anticipation of a scram being prevented by too much water in the SDV. The CRDs at Browns Ferry 3 are grouped so that the east and west sides of the reactor core are connected to separate SDVs. Later tests, inspections, and analyses indicated that the east SDV was substantially full of water at the time of the event, leaving insufficient room for the discharge water. Accordingly, on scram actuation, the CRDs rapidly drove the control rods partially into the core, but rod motion prematurely ceased when pressure quickly equalized on each side of the pistons.

Following each scram actuation, the scram signal was reset by the operator's allowing some water to drain from the SDV, thus permitting the rods to insert further with each scram attempt. Sufficient water was finally drained from the SDV to allow the rods to insert fully on the fourth scram signal. The east SDV water-accumulation problem is believed to result from improper drainage into the SDIV from the SDV because of

(1) inadequate SDV venting, (2) an obstruction in the line between the SDV and SDIV, or (3) a combination of these problems.

The Office of Analysis and Evaluation of Operational Data (NRC) has since evaluated the procedure and equipment at Browns Ferry 1, 2, and 3 to determine their adequacy in providing assurance that the SDV will not fill with water and interfere with a successful scram. Some of the principal AEOD findings, recommendations, and conclusions regarding the procedures and equipment are presented in the following section.

Findings of AEOD report

The Browns Ferry 3 scram instrument volume (SIV) high-level-scram function did not and cannot provide protection against the undetected accumulation of water in the east SDV header with attendant loss of the east bank scram capability even during unobstructed venting and draining conditions.

A single blockage in the venting system or drain line of the west header SDV can result in an undetected accumulation of water in both the east and west headers, which could disable the scram capability of all control rods.

With the current SDV-SIV design, a blockage in the SDV drain or vent path can cause a partial loss of scram capability and can disable the protection system that was installed to ensure detection and corrective action.

The Browns Ferry 3 partial scram failure, together with recent events at other BWRs, shows that float-type instruments for monitoring water level have a significant degree of unreliability.

The Browns Ferry 3 emergency operating instructions did not include a procedure or guidance for the operator to follow in the event of a partial or complete scram failure.

AEOD recommendations

The SIV high-level-scram function should be independent of the SDV vent and drain systems. An acceptable configuration would be placement of the SIV tank directly under the low end of the 6-in. SDV header and connection of the top of the SIV tank to the bottom of the SDV header by a short, vertical 6-in. pipe rather than the long 2-in. horizontal pipe. This arrangement should ensure water spillage from the SDV directly into the tank containing level-monitoring instruments. Futhermore, it would not depend on venting or draining phenomena that are sensitive to blockages. All plants should also provide one SIV tank for each SDV header. Separate instrument volumes, in immediate proximity to their respective headers, should ensure proper water spillage into the SIVs and should provide adequate redundancy for protection against a total loss of scram capability.

Diversity should be added to SIV water-level monitoring instruments for the SIV high-level-scram function. Monitoring techniques such as differential-pressure cells, ultrasonic detection, or conductivity may be considered along with others for this purpose.

Emergency operating procedures and operator training covering both partial and complete scram failure should be provided.

AEOD conclusions

The AEOD analysis of the SDV-SIV design, together with its vent and drain characteristics, leads AEOD to conclude that several actual and postulated mechanisms exist that can cause the SDV to fill with water undetected and without protection against such filling. The analyses also show that certain scram events can result in an unisolated reactor coolant blowdown outside the primary containment following a single isolation-valve failure in the SDV-SIV systems.

In view of these design deficiencies, AEOD believes that modifications must be made to the SDV-SIV arrangement and isolation features. Specific recommendations for changes in the SDV-SIV design are provided in its report. The AEOD believes that the changes are necessary to adequately reduce the risks associated with unreliability of the BWR scram system caused by the undetected accumulation of water in the SDV.

Failure of HPCI to Inject

This event occurred at E. I. Hatch 1 on June 26, 1980, and involved a failure of the high-pressure coolant injection (HPCI) system to inject. Following a turbine trip, the reactor scrammed from a main turbine stop-valve fast closure. The HPCI system received an automatic initiation signal on low reactor water level, but failed to inject into the reactor pressure vessel (RPV) because the HPCI steam line isolated from a high-differential-pressure signal. This represented failure of a system to complete its required protection function, as required by the Technical Specifications.

The isolation was reset, but when the inboard isolation valve was opened, another steam line high-differential-pressure isolation signal was received. The isolation was again reset, and the isolation valves were opened. The HPCI then automatically started, injected into the RPV, and was used to control water level. The automatic depressurization system (ADS), core spray, and low-pressure coolant injection (LPCI) systems were operable. The reactor core isolation cooling (RCIC) system, however, was inoperable.

The determination was made that the isolation, due to steam line high differential pressure, was caused by poor turbine speed control resulting from the turbine control system's being out of dynamic calibration. System calibration had been affected over a period of time by the replacement of control system components that had been statically calibrated.

Following extensive testing, including manual starts and quick starts of the HPCI system and recalibration of the HPCI turbine control systems, the HPCI system demonstrated satisfactory performance during hot quick starts. Calibration, surveillance, and operability procedures are being revised to include quick-start tests for the HPCI and RCIC systems. Performance testing procedures to monitor these two systems are also being developed to assure satisfactory system dynamic response.

Condenser Leakage

Peach Bottom 2 was shut down on March 21, 1980, for a planned major outage. Earlier, on March 6, conductivity in the "A1" section of the condenser had indicated leakage. Conductivity returned to normal, and condenser vacuum was maintained after water box A1 was vented and valved out on March 14.

After the plant was shut down, the condenser vacuum was broken, and atmospheric conditions were established in the condenser steam space. Condenser hot-well level increased as a result of leakage from the condensate storage tank through a leaking makeup valve. Water level in the hot well remained above the leaking condenser tube from March 31 through April 7, when the hot well was drained per normal plant-outage procedures.

Again on April 21, however, hot-well level increased for a short time above the leaking tube, due to condensate system leakage through the condenser makeup valve. The water in the condenser at this time may have contained radioactivity levels similar to those contained in the water from the reactor head cavity, because the head cavity had just recently been drained. During the periods that leakage occurred from the hot well to the circulating water system, however, at least one circulating water pump was operating. The radioactive water leak was thus diluted by at least 250,000 gpm.

Following the event, tube sheets in the A1 water box were surveyed. Areas indicating high contamination levels were leak tested, and the one leaking tube was then measured at various differential pressures. Analysis of these data combined with the hot-well level indicated that the total release of coolant inventory between March 31 and April 7 was 11,088 gal. During the release on April 21, 244 gal was released. The radiation released throughout the period totals 0.01 curie; a dose calculation based on the isotopes involved indicates a minimal exposure well below radiation dose limits.

The event was caused by a failure to recognize a series of circumstances that would allow release of water from the hot well to the circulating water system during an outage. Instructions have been issued to shift personnel to limit hot-well level below the condenser tubes at all times during operation and shutdown, and corresponding procedural changes are being made.

Jet Pump Assembly Failure

On February 2, 1980, while Dresden 3 was operating at about 67% power in a coastdown to a refueling outage, changes observed in plant parameters indicated that jet pump failure had occurred. An orderly plant shutdown was begun to bring the unit to cold shutdown within 24 h, per plant Technical Specifications.

The following changes in plant parameters were readily observed by the control room operator:

1. Generator electrical output decreased from 539 to 511 MW(e).
2. Core thermal power decreased by 15% as indicated by decreased average power-range monitor readings and steam flows to the turbine.

3. Indicated total core flow increased from 97.6 x 10^6 to 104.7 x 10^6 lb/h.
4. Core-plate differential pressure decreased from 16.1 to 13.8 psid.
5. "B" recirculation loop flow increased from 49 x 10^3 to 54 x 10^3 gpm, while A recirculation loop flow remained at 49 x 10^3 gpm.

Individual jet pump readings and jet pump operability surveillance indicated that jet pump 13 on the B recirculation loop had apparently disassembled.

During cold shutdown following vessel head removal and refueling, remote television and visual inspections of the jet pumps and vessel annulus were performed. These showed that the hold-down beam assembly of jet pump 13 had broken across its ligament sections at the mean diameter of the bolt thread areas. This beam assembly failure resulted in pump decoupling of the diffuser connection. Subsequent *in-situ* ultrasonic examination of the other jet pump hold-down beams revealed indications of cracking at the same location in six beams, with estimates of crack depth ranging from 6 to 20 mils.

In situ ultrasonic examination was also done on all jet pump hold-down beam assemblies at Quad Cities 2 on March 15 and 16, 1980, while the unit was shut down for refueling. Of the 20 assemblies examined, a crack was indicated on one beam. The crack was estimated to be in excess of 100 mils and in the same location as found on the beams at Dresden. At Pilgrim 1 on March 28, 1980, ultrasonic examination showed crack indications in three hold-down beam assemblies.

The damaged beam assemblies were replaced during the refueling outage at the units mentioned previously, and Dresden 3 was restarted on May 3, 1980. General Electric (the nuclear steam system supplier contractor) performed a metallurgical analysis and determined that intergranular stress corrosion cracking under sustained loading was the cause of the failure. They also reported this potential problem to other licensees with operating BWR units with jet pumps.

On April 4, 1980, the NRC issued Inspection and Enforcement (IE) Bulletin No. 80-07, "BWR Jet Pump Assembly Failure." The bulletin addressed the concern that the hold-down beam assemblies and subsequent jet pump function may degrade significantly during operation. This potential problem could lead to jet pump disassembly and possible reduction of the safety margin during postulated accidents.

Bulletin 80-07 also listed several actions to be taken by licensees of GE-designed BWR-3 and BWR-4 plants with operating licenses. Prior to restart, licensees with plants in a refueling outage when the bulletin was received were to (1) visually inspect (assisted by television cameras) jet pump structures, hold-down beam assembly, hold downs, wedge, and restrainer assembly for evidence of distress that could indicate loss of beam assembly preload; (2) conduct ultrasonic examinations of the jet pump hold-down beams at the midlength ligament areas bounding the beam bolt; and (3) notify the appropriate NRC regional office of completion of (1) and (2) and submit a 14-d report. Licensees with plants that were operating or resuming operation were requested to provide, within 30 d of the receipt of the bulletin, written justification of continued operation until inspections (1) and (2) were made and any defects corrected. Procedures for instructing plant operators on identification and response to sudden jet pump failure were to be reviewed and revised as required. The

NRC is currently considering appropriate long-term measures to better assure reliable jet pump operability.[37,*]

Scram Discharge Volume Fails to Drain at Dresden 3

Following a manual scram at Dresden 3 on July 19, 1980, to gather data requested by IE Bulletin 80-17, an ultrasonic test of the west SDV revealed that the 4-in. pipe was 80% full after all level alarms cleared on the instrumented scram volume. The ultrasonic test of the east SDV revealed that they were, in fact, drained. Fifty-six minutes after the manual opening of the vent and drain valves, a ball check valve (installed as a vacuum breaker) was manually opened with some difficulty. Air inrush into the SDV through the valve was heard, and the ultrasonic test indicated that the SDV began draining at a faster rate. One hour and thirty-eight minutes after the vent and drain valves were opened, the west SDV 4-in. headers were drained.

The ball check valves on both the west and east SDV vent lines were removed, cleaned, and reinstalled. Also, an alternate, continuous, vent line path to the reactor building atmosphere was established on both units 2 and 3 on the vent piping between the SDV vent valves and drain for the reactor building equipment. To establish this positive vent path, the existing 1-in.-diam vent line was cut, opening the line to the reactor building atmosphere in the torus area. An extension was added to the cut vent line to extend it below the torus catwalk. The alternate vent path is open at all times and does not depend on any component operability other than the installed SDV vent valve.

On July 20, 1980, an automatic scram of Dresden 3 was initiated to complete the actions required by IE Bulletin 80-17. After the scam was reset and the vent and drain valves were manually opened, the east SDV 4-in. headers drained in 16 min and 36 s, and the west SDV 4-in. headers drained in 40 min and 36 s.

To ensure that the SDV remains drained and that sufficient volume is available to accommodate a scram, installation of a system to continuously monitor water level during operation is being investigated as required by IE Bulletin 80-17 Supplement 1.

SUMMARY

For 1980, 1547 event reports were submitted by licensees. Thirty-eight units were considered in this report: 25 were in commercial operation all year and submitted an average of 48 reports per unit; 1 unit in power ascension part of the year submitted 135 reports; 12 units under construction during the year submitted 21 reports. The system involved in

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*This report was taken primarily with modifications from Ref. 34 (pp. 226 through 229) with the figures from Ref. 37. For additional information see Refs. 37 through 39.

the greatest number of events was the main cooling system. The most frequently reported equipment item was valves. Switches were the most frequently reported instrument and, as expected, set-point drift was the most frequently reported deficiency. Approximately 45% of the events reported were discovered during performance testing. Designers were identified as having been at fault in the largest number of reports – 137. Licensed operators were only identifiid as being at fault in 80 reports (<6%). In fairness, one should note that the LERs were written by people responsible for plant operations.

In conclusion, note that this review has presented negative aspects of BWR nuclear-power plant performance not to degrade this type of plant but rather to provide some guidance as to where additional effort could be expended to minimize failures and malfunctions. This review is intended to make a contribution to the safe operation and improved performance of BWR nuclear-power plants.

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INDEXES FOR BIBLIOGRAPHY

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KEYWORD INDEX

A COLLECTION OF KEYWORDS IS USED TO DENOTE THE MAIN SAFETY RELATED POINTS COVERED IN EACH ARTICLE. THE FOLLOWING INDEX IS AN ALPHABETICAL LISTING OF THE KEYWORDS GIVING REFERENCES TO EACH ARTICLE WHICH WAS KEYED TO IT.

ACCELERATION
157119 P360
*ACCIDENT ANALYSIS
155207 P 53 158286 P477 154694 P502 160490 P527
ACCIDENT ANALYSIS
153973 P 30 156954 P 36 159293 P 39 155192 P 51
156945 P 61 154946 P349 155385 P353 155196 P419
156339 P433 154932 P440 161798 P447 153946 P537
155469 P569 155497 P570
*ACCIDENT, LOSS OF COOLANT
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159320 P336	160124 P337	159691 P337	159408 P338
160138 P338	160145 P339	160810 P339	160493 P340
160486 P340	160868 P340	160840 P341	161950 P341
160843 P342	161795 P342	162761 P344	162058 P345
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155313 P350	154744 P351	155385 P353	155300 P353
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@MODULATING DAMPER FAILS TO CLOSE AT BROWNS FERRY 1@
@FUEL ASSEMBLY LOADED 90 DEGREES FROM PROPER ORIENTATION AT BROWNS FERRY 1@
@REACTOR BUILDING VENTILATION MONITOR FAILS AT BROWNS FERRY 1@
@RHR TORUS RETURN VALVE FAILS TO OPERATE AT BROWNS FERRY 1@
@RIVER WATER TEMPERATURE RISE EXCEEDS LIMIT AT BROWNS FERRY 1@
@SEISMIC MONITOR INOPERABLE AT BROWNS FERRY 1@
@RCIC VALVE POSITION INDICATION LOST AT BROWNS FERRY 1@
@AIR TEMPERATURE RECORDER FAILED AT BROWNS FERRY 1@
@SERVICE WATER PIPING SUPPORTS DEGRADED AT BROWNS FERRY 1@
@LINEAR HEAT GENERATION RATE EXCEEDED AT BROWNS FERRY 1@
@HPCI EGR ACTUATOR GROUNDED AT BROWNS FERRY 1@
@FIRE PROTECTION VALVE LEAKS AT BROWNS FERRY 1@
@DRYWELL EXHAUST SOLENOID COIL NOT QUALIFIED AT BROWNS FERRY 1@
@DRYWELL PRESSURE TRANSMITTERS NOT QUALIFIED AT BROWNS FERRY 1@
@COOLING TOWER TRANSFORMER FEEDER BREAKERS FAIL TO CLOSE AT BROWNS FERRY 1@
@DIFFERENTIAL RIVER TEMPERATURE EXCEEDS LIMIT AT BROWNS FERRY 1@
@CONTROL ROD UNCOUPLED FROM DRIVE AT BROWNS FERRY 1@
@SET POINT DRIFT IN CORE SPRAY SWITCH AT BROWNS FERRY 1@
@DIESEL GENERATOR BREAKER TRIPS AT BROWNS FERRY 1@
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SPRAY PUMP AREA CCCLER FAN THERMOSTAT SET ABOVE LIMIT AT BROWNS FERRY 1@
FOUND IN HPCI TURBINE COUPLING BEARING SUPPORT PEDESTAL AT BROWNS FERRY 1@
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HPCI STEAM LINE SPARE TEMPERATURE SWITCH INSTALLED AT BROWNS FERRY 1@
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VALVE FOUND ON TWO SPARE LINES PENETRATING CONTAINMENT AT BROWNS FERRY 1@
@UPDATE ON HYDROGEN SENSOR QUALIFICATIONS AT BROWNS FERRY 1, 2 AND 3@
@UPDATE REPORT ON LOST WIND DIRECTION INDICATION AT BROWNS FERRY 1, 2 AND 3@
@UPDATE REPORT ON SEISMIC MONITOR FAILURE AT BROWNS FERRY 1, 2, AND 3@
@SET POINT DRIFT IN MAINSTEAM LINE HIGH FLOW SWITCH AT BROWNS FERRY 2@
@REACTOR WATER LEVEL SWITCH FAILS TO OPERATE AT BROWNS FERRY 2@
@RECIRC SYSTEM FLOW CONTROL VALVE FAILS TO OPERATE AT BROWNS FERRY 2@
@MOMENTARY BREACH OF SECONDARY CONTAINMENT OCCURS AT BROWNS FERRY 2@
@SET POINT DRIFT IN REACTOR WATER LEVEL SWITCH AT BROWNS FERRY 2@
@LIQUID LEVEL SWITCHES FAIL TO OPERATE PROPERLY AT BROWNS FERRY 2@
@ONLY OPERABLE RECIRCULATION PUMP ACCIDENTALLY TRIPPED AT BROWNS FERRY 2@
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@LOW PRESSURE SENSED BY MAIN STEAM LINE PRESSURE SENSOR AT BROWNS FERRY 2@
@HPCI TURBINE TRIPS DURING TESTING AT BROWNS FERRY 2@
@REACTOR RECIRCULATION MOTOR-GENERATOR SET TRIPS AT BROWNS FERRY 2@
@APRM FLOW SIGNAL IS HIGHER THAN ACTUAL FLOW AT BROWNS FERRY 2@
@SET POINT DRIFT IN REACTOR PRESSURE SWITCH AT BROWNS FERRY 2@
@AIR PARTICULATE CHANNEL RECORDER FAILS AT BROWNS FERRY 2@
@REACTOR RECIRCULATION MG SET TRIPPED AT BROWNS FERRY 2@
@CONTROL ROD DRIFTS OUT AT BROWNS FERRY 2@
@CRACKS FOUND IN SAFETY VALVE GUIDE AT BROWNS FERRY 2@
@BREAKER TO REACTOR MOV BOARD TRIPS AT BROWNS FERRY 2@
@CORE SPRAY DISCHARGE SWITCH FAILS TO OPERATE AT BROWNS FERRY 2@
@REACTOR LOW WATER LEVEL SWITCH SETPOINT INCORRECT AT BROWNS FERRY 2@
@SET POINT DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT BROWNS FERRY 2@
@LINEAR HEAT GENERATION RATE NOT CHECKED AT BROWNS FERRY 2@
@HPCI TURBINE RUPTURE DISC FAILS AT BROWNS FERRY 2@
@RHR HEAT EXCHANGER LEAKS AT BROWNS FERRY 2@
@RHR HEAT EXCHANGER LEAKS AT BROWNS FERRY 2@
@RHR CHECK VALVE LEAKS AT BROWNS FERRY 2@
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#SUPPRESSION CHAMBER COOLING VALVE FAILS AT QUAD-	CITIES 1*	157038 P542
#RECIRCULATION PUMP MOTOR GENERATOR SET TRIPS AT QUAD	CITIES 1*	158629 P543
#SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT QUAD	CITIES 1*	156912 P543
#TARGET ROCK SAFETY RELIEF VALVE FAILS TO OPEN AT QUAD	CITIES 1*	158751 P544
#MAIN STEAM ISOLATION VALVE FAILS TO CLOSE AT QUAD	CITIES 1*	158738 P544
#VACUUM BREAKER VALVE OPENS AT QUAD	CITIES 1*	159281 P545
#BOTH MAIN CHIMNEY OFF GAS SAMPLE PUMPS FAIL AT QUAD	CITIES 1*	159331 P545
#RCIC FLOW CONTROLLER LEFT IN MANUAL FOLLOWING TEST AT QUAD	CITIES 1*	159413 P545
#ELECTROMATIC RELIEF VALVE FAILS TO CLOSE AT QUAD	CITIES 1*	160452 P546
#UPDATE ON LEAKY CONTAINMENT ISOLATION VALVES AT QUAD	CITIES 1*	162561 P546
#FUEL BUNDLE MOVED PREMATURELY AT QUAD-	CITIES 1*	160059 P547
#CRACKS DISCOVERED IN CORE SPRAY PIPING AT QUAD	CITIES 1*	160091 P548
#DIESEL GENERATOR TRIPS ON HIGH ENGINE TEMPERATURE AT QUAD	CITIES 1*	161063 P548
#TEN PIPES NOT SUPPORTED PROPERLY AT QUAD-	CITIES 1*	160904 P548
#SAFETY RELIEF VALVE LINE CRACKED AT QUAD-	CITIES 1*	161454 P549
#PRIMARY CONTAINMENT INTEGRITY VIOLATED AT QUAD	CITIES 1*	162086 P550
RCIC STEAM SUPPLY VALVES LEFT CLOSED FOLLOWING TEST AT QUAD-	CITIES 1*	# 156025 P540
CONTAINMENT ISOLATION VALVE LEAK RATES EXCEED LIMIT AT QUAD	CITIES 1*	# 160815 P546
POINT DRIFT OF HIGH DRYWELL PRESSURE SWITCH FOUND AT QUAD	CITIES 1*	#SET 156964 P543
EXPOSURE EXCEEDS MAPLHGR LIMIT ANALYSIS EXPOSURES AT QUAD	CITIES 1*	#FUEL 153946 P537
GENERATOR FAILS TO START FROM THE CONTROL ROOM AT QUAD	CITIES 1*	#DIESEL 156036 P541
GENERATOR COOLING WATER PUMP MOTOR INOPERABLE AT QUAD-	CITIES 1*	#DIESEL 161898 P549
RELATED MOTOR CONTROL CENTER FEEDER BREAKER TRIPS AT QUAD	CITIES 1*	#SAFETY 158624 P542
DRIFT IN HPCI TURBINE AREA HIGH TEMPERATURE SWITCH AT QUAD	CITIES 1*	#SET POINT 160451 P547
LOW WATER LEVEL SWITCH FAILS TO OPERATE PROPERLY AT QUAD	CITIES 1*	#REACTOR LOW- 155369 P540
PRESSURE TRANSMITTER VALVE FOUND CLOSED AT QUAD	CITIES 1*	#DIFFERENTIAL 154443 P538
IN ELECTROHYDRAULIC CONTROL FLUID PRESSURE SWITCH AT QUAD-	CITIES 1*	#SET POINT DRIFT 156962 P542
#CONTAINMENT OXYGEN ANALYZER VALVE FAILS TO CLOSE AT QUAD	CITIES 2*	153437 P550
#SLC RELIEF VALVES UNTIL PRESSURE EXCEEDS LIMIT AT QUAD	CITIES 2*	159910 P551
#RHR SERVICE WATER VAULT PENETRATION LEAKS AT QUAD	CITIES 2*	154915 P552
#SET POINT DRIFT IN AUTOMATIC BLOWDOWN TIMER RELAY AT QUAD	CITIES 2*	155491 P552
#RHR PUMP TIMER RELAY FAILS AT QUAD-	CITIES 2*	155985 P553
#CORE SPRAY PIPE CRACKS DISCOVERED AT QUAD-	CITIES 2*	155987 P553
#CRACK FOUND IN JET PUMP BEAM ASSEMBLY AT QUAD-	CITIES 2*	157065 P553
#SET POINT DRIFT FOUND IN MSIV CLOSURE TIMING AT QUAD-	CITIES 2*	159569 P555
#PRESSURE RELIEF VALVE FAILS TO OPEN AT QUAD-	CITIES 2*	156942 P555
#REACTOR COOLANT CONDUCTIVITY EXCEEDS LIMIT AT QUAD	CITIES 2*	158494 P555
#SUPPRESSION POOL COOLING VALVE FAILS TO CLOSE AT QUAD	CITIES 2*	158495 P556
#HPCI EMERGENCY OIL PUMP DISCHARGE LINE LEAKS AT QUAD	CITIES 2*	158714 P556
#HPCI STEAMLINE LEAKS AT QUAD-	CITIES 2*	159241 P557
#HPCI STUCK ON HIGH SPEED AT QUAD	CITIES 2*	159524 P558
#RECIRC PUMP MOTOR GENERATOR BREAKER OPENS AT QUAD-	CITIES 2*	159689 P558
#CORE SPRAY VALVE FAILS TO OPEN AT QUAD	CITIES 2*	160067 P559
#LPCI VALVE FAILS TO OPEN FULLY AT QUAD-	CITIES 2*	160567 P559
#RHR CONTAINMENT COOLING VALVE FAILS TO OPEN AT QUAD-	CITIES 2*	160878 P560
#RCIC PUMP DISCHARGE VALVE FAILS TO OPEN AT QUAD	CITIES 2*	161455 P560
#UPDATE ON PRESSURE RELIEF VALVE FAILURE AT QUAD	CITIES 2*	163430 P560
#RHR PUMP FAILS TO START AT QUAD-	CITIES 2*	163584 P561
#SET POINT DRIFT IN CONTAINMENT PRESSURE SWITCH AT QUAD-	CITIES 2*	161458 P561
#PRIMARY VENT VALVE FAILS TO CLOSE IN TIME AT QUAD-	CITIES 2*	161900 P562
#RCIC AND HPCI INOPERABLE AT QUAD-	CITIES 2*	161901 P562

#HPCI STOP VALVE COVER LEAKS AT QUAD-	CITIES 2Φ	161902 P582
#RHR LOGIC CIRCUIT INOPERABLE AT QUAD-	CITIES 2Φ	163335 P863
#HPCI VALVE INOPERABLE AT QUAD	CITIES 2Φ	161861 P863
#ELECTROMAGNETIC RELIEF VALVE FAILS TO OPEN AT QUAD-	CITIES 2Φ	163334 P864
#RHR PUMP INOPERABLE AT QUAD	CITIES 2Φ	162032 P864
CONTAINMENT ISOLATION NITROGEN VALVE FAILS TO CLOSE AT QUAD-	CITIES 2Φ	# 159688 P550
POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT QUAD	CITIES 2Φ	#SET 159342 P557
RHR DELAY TIMERS FAIL TO ACTUATE THE TIMER CONTACTS AT QUAD	CITIES 2Φ	#TWO 156019 P554
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#REACTOR WATER	CLEANUP PIPE CRACKS AT HATCH 1Φ	158724 P329
#UPDATE ON REACTOR WATER	CLEANUP SUCTION LINE CRACKED AT VERMONT YANKEEΦ	163493 P579
#REACTOR WATER	CLEANUP SYSTEN INSTRUMENT LINE LEAKS AT DRESDEN 2Φ	159439 P217
#REACTOR WATER	CLEANUP SYSTEN ISOLATION VALVE FAILS TO CLOSE IN TIME AT DUANE ARNOLDΦ	160855 P 20
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#MAIN STEAM ISOLATION VALVE FAILS TO	CLOSE AT BIG ROCK POINTΦ	161674 P 42
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#THREE RWCU ISOLATION VALVES FAIL TO	CLOSE AT BROWNS FERRY 1Φ	156078 P 59
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#REACTOR WATER CLEAN-UP ISOLATION VALVE FAILS TO	CLOSE AT BROWNS FERRY 3Φ	136955 P106
#RCIC MINIMUM FLOW BYPASS VALVE FAILS TO	CLOSE AT BROWNS FERRY 3Φ	159416 P112
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#TWO INSTRUMENT SENSING LINE ISOLATION VALVES	CLOSE AT BRUNSWICK 1Φ	156228 P131
#RIP VALVE DOES NOT FULLY	CLOSE AT BRUNSWICK 1Φ	156920 P142
#SUPPRESSION POOL EXHAUST VALVE FAILS TO	CLOSE AT BRUNSWICK 2Φ	160487 P185
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#LPCI VALVE FAILS TO	CLOSE AT DRESDEN 3Φ	158294 P825
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#CONTAINMENT ISOLATION VALVES FAIL TO	CLOSE AT DUANE ARNOLDΦ	161715 P 23
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#HPCI PUMP MINIMUM FLOW VALVE FAILS TO	CLOSE AT FITZPATRICKΦ	158301 P276
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#CONTAINMENT ISOLATION VALVE FAILS TO	CLOSE AT FITZPATRICKΦ	160917 P283
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#HPCI MINIMUM FLOW VALVE FAILS TO	CLOSE AT HATCH 1Φ	160868 P340
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#RCIC STEAM SUPPLY LINE ISOLATION VALVE FAILS TO	CLOSE AT HATCH 2Φ	158643 P370
#HPCI ISOLATION VALVE FAILS TO	CLOSE AT HATCH 2Φ	158656 P379
#MAIN STEAM ISOLATION VALVE FAILS TO	CLOSE AT HATCH 2Φ	158248 P380
#RCIC OUTBOARD ISOLATION VALVE FAILS TO	CLOSE AT HATCH 2Φ	159319 P396
#DRYWELL SUMP ISOLATION VALVE FAILS TO	CLOSE AT MONTICELLOΦ	161895 P438
#MAIN STEAM ISOLATION VALVES FAIL TO	CLOSE AT NINE MILE POINT 1Φ	160091 P441
#RCIC STEAM SUPPLY VALVE FAILS TO	CLOSE AT PEACH BOTTOM 2Φ	160122 P480
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#MAIN STEAM SAMPLE LINE ISOLATION VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	154897 P488
#FEEDWATER FLUSH ISOLATION VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	153476 P489
#CONTAINMENT SPRAY OUTBOARD ISOLATION VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	159095 P494
#CONTAINMENT ISOLATION VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	160137 P495
#CONTAINMENT ISOLATION VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	159430 P496
#CONTAINMENT VENTILATION ISOLATION VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	159440 P497
#HPCI VALVE FAILS TO	CLOSE AT PEACH BOTTOM 3Φ	161755 P500
#RCIC ISOLATION VALVE FAILS TO	CLOSE AT PILGRIM 1Φ	159368 P519
#RCIC OUTBOARD ISOLATION VALVE FAILS TO	CLOSE AT PILGRIM 1Φ	159536 P519
#MAIN STEAM LINE DRAIN ISOLATION VALVE FAILS TO	CLOSE AT PILGRIM 1Φ	159280 P520
#NITROGEN PURGE SUPPLY ISOLATION VALVE FAILS TO	CLOSE AT PILGRIM 1Φ	160212 P526
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#RHR SERVICE WATER VAULT BED PLATE DRAIN VALVE FAILS TO	CLOSE AT QUAD CITIES 2#		153951 P351
#SUPPRESSION POOL COOLING VALVE FAILS TO	CLOSE AT QUAD CITIES 2#		158495 P356
#MSIV FAILS TO	CLOSE AT QUAD-CITIES 1#		154024 P340
#CONTAINMENT ISOLATION NITROGEN VALVE FAILS TO	CLOSE AT QUAD-CITIES 2#		159688 P358
#CONTAINMENT MONITORING ISOLATION VALVE FAILS TO	CLOSE AT VERMONT YANKEE#		154869 P372
#CONTAINMENT SUMP ISOLATION VALVE FAILS TO	CLOSE AT VERMONT YANKEE#		154722 P373
#MAIN STEAM ISOLATION VALVE FAILS TO	CLOSE IN TIME AT COOPER#		163531 P260
#REACTOR WATER CLEANUP SYSTEM ISOLATION VALVE FAILS TO	CLOSE IN TIME AT DUANE ARNOLD#		160655 P 20
#NITROGEN PURGE ISOLATION VALVE FAILS TO	CLOSE IN TIME AT PILGRIM 1#		159840 P315
#PRIMARY VENT VALVE FAILS TO	CLOSE IN TIME AT QUAD-CITIES 2#		161930 P362
# #MAIN STEAM ISOLATION VALVES	CLOSE TOO FAST AND FAIL TO INDICATE CLOSED AT QUAD CITIES 2		160035 P359
#MSIV FAILS TO	CLOSE WITHIN TIME LIMIT AT MONTICELLO#		160209 P436
#CONTAINMENT ISOLATION VALVES LOSE POWER AND TRANSFER	CLOSED AT BROWNS FERRY 3#		157035 P104
#EMERGENCY EQUIPMENT COOLING WATER VALVE FAILS	CLOSED AT BROWNS FERRY 3#		161021 P120
#MANUAL VALVE ON HPCI SUPPRESSION POOL SUCTION LINE FOUND	CLOSED AT BRUNSWICK 1#		155615 P132
#ISOLATION VALVE FOR DRYWELL PRESSURE SWITCH FOUND	CLOSED AT BRUNSWICK 2#		153736 P104
#RIP VALVES FOR CONTAINMENT AIR MONITORS FOUND	CLOSED AT BRUNSWICK 2#		155531 P171
#REACTOR LOW WATER LEVEL SWITCH STICKS	CLOSED AT BRUNSWICK 2#		158732 P180
#RCIC AND HPCI EXHAUST VALVES	CLOSED AT BRUNSWICK 2#		160358 P107
#RHR SERVICE WATER PUMP BEARING COOLING WATER VALVES FOUND	CLOSED AT HATCH 1#		159011 P310
#CONTAINMENT VACUUM BREAKER VALVE FAILS	CLOSED AT HATCH 2#		158445 P384
#DIESEL GENERATOR CARBON SYSTEM VAPOR PILOT VALVE FOUND	CLOSED AT PEACH BOTTOM 2#		159194 P479
#CONTAINMENT RADIOACTIVE GAS SAMPLER ISOLATION VALVES FAIL	CLOSED AT PEACH BOTTOM 2#		160073 P482
#CONTAINMENT ISOLATION VALVES FAIL	CLOSED AT PEACH BOTTOM 2#		160927 P483
#AIR SUPPLY VALVE TO ISOLATION VALVE INADVERTENTLY	CLOSED AT PEACH BOTTOM 2#		161976 P486
#SEVEN CONTAINMENT ISOLATION VALVES FOUND	CLOSED AT PEACH BOTTOM 3#		160504 P499
#DIFFERENTIAL PRESSURE TRANSMITTER VALVE FOUND	CLOSED AT QUAD CITIES 1#		154463 P538
#REACTOR BUILDING VENTILATION SYSTEM ISOLATION VALVE FAILS	CLOSED AT QUAD CITIES 2#		155498 P562
STEAM ISOLATION VALVES CLOSE TOO FAST AND FAIL TO INDICATE	CLOSED AT QUAD CITIES 2#	#MAIN	160035 P359
#HPCI GOVERNOR VALVE FAILS	CLOSED AT VERMONT YANKEE#		153599 P368
INSTALLED AT BROWNS FERRY 1# #RB	CLOSED COOLING WATER PIPING SEISMIC RESTRAINTS NOT		154610 P 48
#RCIC STEAM SUPPLY VALVES LEFT	CLOSED FOLLOWING TEST AT QUAD-CITIES 1#		159025 P340
#RHR MINIMUM FLOW VALVES	CLOSED INADVERTENTLY AT HATCH 1#		159598 P322
#FIRE DOOR	CLOSERS NOT REPAIRED IN TIME AT BRUNSWICK 1 AND 2#		162412 P169
#RCIC TRIP AND THROTTLE VALVE	CLOSES AND HPCI ISOLATION VALVE CLOSES AT HATCH 2#		158957 P376
#HPCI STEAM ISOLATION VALVE	CLOSES AT FITZPATRICK#		159517 P273
TRIP AND THROTTLE VALVE CLOSES AND HPCI ISOLATION VALVE	CLOSES AT HATCH 2#	#RCIC	158957 P376
#SPURIOUS SIGNAL	CLOSES HPCI STEAM SUPPLY VALVE AT FITZPATRICK#		154655 P261
#MAIN STEAM ISOLATION VALVE	CLOSES TOO FAST AT BROWNS FERRY 3#		160080 P116
#DRYWELL PURGE VALVE	CLOSING TIME EXCEEDS LIMIT AT QUAD CITIES 1#		153948 P538
#OPENING AND	CLOSING TIME OF RHR VALVE OFF LIMITS AT HATCH 1#		154668 P301
#MSIV	CLOSING TIME TOO FAST AT COOPER#		159467 P250
#RPS LOGIC RELAY FAILS TO DEENERGIZE FOLLOWING MSIV	CLOSURE AT BRUNSWICK 1#		160804 P154
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#TURBINE CONTROL VALVE FAST	CLOSURE TEST NOT PERFORMED AT HATCH 1#		154665 P301
#MSIV	CLOSURE TIME EXCEEDS LIMIT AT QUAD CITIES 1#		153491 P538
#MSIV	CLOSURE TIME OUT OF LIMITS AT DRESDEN 2#		154616 P209
#MSIV	CLOSURE TIMES EXCEED LIMITS AT DRESDEN 3#		160176 P235
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#CONTAINMENT OXYGEN	CONCENTRATION EXCEEDS LIMIT AT BRUNSWICK 2#		160874 P191
#CONTAINMENT OXYGEN	CONCENTRATION EXCEEDS LIMIT AT BRUNSWICK 2#		160920 P193

#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMIT AT BRUNSWICK 2# 161817 P199
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMIT AT HATCH 1# 156187 P312
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMIT AT HATCH 1# 156586 P316
#REACTOR COOLANT CHLORIDE CONCENTRATION EXCEEDS LIMIT AT HATCH 2# 156996 P362
#TORUS OXYGEN CONCENTRATION EXCEEDS LIMIT AT OYSTER CREEK# 159327 P451
#DISCHARGE BAY CHLORINE CONCENTRATION EXCEEDS LIMIT AT QUAD CITIES# 159155 P510
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#HR AND CONDENSATE ISOLATION VALVES LEAK AT HATCH 2# 161790 P402
#LEAK FOUND IN RECOMBINER DRAIN TRAP CONDENSATE LINE AT MONTICELLO# 153458 P427
#RCIC SYSTEM CONDENSATE PUMP FAILS TO PUMP PROPERLY AT ARNOLD# 155348 P 4
#CONTAINMENT CONDENSATE RETURN ISOLATION VALVE-LEAKS AT LA CROSSE# 158309 P413
CONDENSATE STORAGE TANK BASE SLAB SEAL MISSING AT HATCH 1# 157091 P312
#SET POINT DRIFT IN CONDENSATE STORAGE TANK LEVEL SWITCH AT BRUNSWICK 1# 155565 P127
#SETPOINT DRIFT IN CONDENSATE STORAGE TANK LEVEL SWITCH AT FITZPATRICK# 156197 P274
ARNOLD# # CONDENSATE STORAGE TANK LOW LEVEL SWITCH FAILS AT DUANE 160829 P 19
#RADIOACTIVE WATER LEAKS FROM CONDENSATE TRANSFER PIPING AT OYSTER CREEK# 155966 P451
#SET POINT DRIFT IN ISOLATION CONDENSER CONDENSATE FLOW SWITCH AT DRESDEN 2# 159243 P215
#SHUTDOWN CONDENSER CONTROL VALVES NOT TESTED IN TIME AT LACROSSE# 161891 P416
COOPER# # CONDENSER COOLING WATER TEMPERATURE LIMIT EXCEEDED AT 159493 P249
COOPER# # CONDENSER COOLING WATER TEMPERATURE LIMIT EXCEEDED AT 159469 P249
COOPER# # CONDENSER COOLING WATER TEMPERATURE LIMIT EXCEEDED AT 159488 P251
COOPER# # CONDENSER COOLING WATER TEMPERATURE LIMIT EXCEEDED AT 159460 P251
COOPER# # CONDENSER COOLING WATER TEMPERATURE LIMIT EXCEEDED AT 159491 P251
PILGRIM 1# # CONDENSER COOLING WATER TEMPERATURE RISE EXCEEDS LIMIT AT 155348 P502
#STEAM LEAK IN CONDENSER DRAIN LINE AT MONTICELLO# 160918 P437
#INDICATED TEMPERATURE ACROSS CONDENSER EXCEEDS LIMIT AT NINE MILE POINT 1# 154447 P439
#SET POINT DRIFT IN ISOLATION CONDENSER FLOW SWITCH AT DRESDEN 2# 160002 P211
#INITIATION SWITCHES FOR ISOLATION CONDENSER INCORRECTLY SET AT OYSTER CREEK# 160256 P454
#SET POINT DRIFT IN CONDENSER LOW VACUUM SWITCH AT PILGRIM 1# 156158 P507
#FLOW REDUCED TO CONDENSER OFF GAS RADIATION MONITORS AT PILGRIM 1# 159610 P513
#EMERGENCY CONDENSER OUTLET VALVE LEAKS THROUGH SEAT AT BIG ROCK POINT 154457 P 31
#WATER HAMMER OCCURS IN ISOLATION CONDENSER PIPING AT MILLSTONE 1# 153962 P419
#SET POINT DRIFT IN CONDENSER PRESSURE SWITCH AT DRESDEN 2# 161871 P221
#ISOLATION CONDENSER REMOVED FROM SERVICE AT MILLSTONE 1# 154614 P423
CONDENSER TEMPERATURE GRADIENT EXCEEDS LIMIT AT PILGRIM 1# 160523 P529
#RCIC ISOLATION CONDENSER VALVE INOPERABLE AT DRESDEN 3# 161457 P236
#UPDATE REPORT ON EMERGENCY CONDENSER VALVE SEAT LEAKAGE AT BIG ROCK POINT# 154458 P 30
CONDENSER VENT ISOLATION VALVE INOPERABLE AT DRESDEN 3# 161843 P239
#REACTOR VESSEL CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 1# 155311 P135
#REACTOR VESSEL CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 1# 163469 P146
#REACTOR COOLANT CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 1# 160403 P150
#REACTOR COOLANT CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 2# 153737 P144
#REACTOR COOLANT CONDUCTIVITY EXCEEDS LIMIT AT PEACH BOTTOM 3# 159499 P490
#REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT PILGRIM 1# 158277 P519
#REACTOR COOLANT CONDUCTIVITY EXCEEDS LIMIT AT QUAD CITIES 2# 159494 P555
#REACTOR COOLANT CONDUCTIVITY LIMITS EXCEEDED AT HATCH 2# 160539 P398
#HPCI PUMP DISCHARGE PIPE CLAMP NOT CONNECTED AT BRUNSWICK 1# 163393 P155
#TORUS AND DRYWELL TEMPERATURE SENSORS CONNECTED TO WRONG INDICATORS AT HATCH 2# 156963 P365
#RCIC SPEED FEEDBACK MAGNETIC PICKUP CONNECTOR FAILS AT BROWNS FERRY 3# 160115 P114
#TECH SPEC LIMIT FOR RPS DELAY TIME NON- CONSERVATIVE AT VERMONT YANKEE# 155469 P569
#RCIC VALVE TRANSFERS OPEN WHEN BREAKER CONTACT SHORTS AT COOPER# 157036 P244
#TWO RHR DELAY TIMERS FAIL TO ACTUATE THE TIMER CONTACTS AT QUAD CITIES 2# 156019 P554
CONTAINMENT AIR LOCK DOOR INTERLOCK FAILS AT LACROSSE# 161888 P415
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#LOW LEVEL FOUND IN CONTAINMENT ATMOSPHERE DILUTION TANK AT BRUNSWICK 1# 156928 P139
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#SET POINT DRIFT IN CONTAINMENT ATMOSPHERE MONITOR AT BRUNSWICK 1# 163502 P159
CONTAINMENT ATMOSPHERE MONITOR ERRATIC AT BRUNSWICK 2# 155538 P164
BRUNSWICK 1# # CONTAINMENT ATMOSPHERE MONITOR FLOW LOW AT BRUNSWICK 2# 156112 P176
CONTAINMENT ATMOSPHERE MONITOR HAS A STEP CHANGE AT 154876 P130
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BRUNSWICK 1# # CONTAINMENT ATMOSPHERE MONITOR LINE VALVE FAILS TO CLOSE 156229 P129
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#OXYGEN CHANNEL OF CONTAINMENT ATMOSPHERE OXYGEN MONITORS CONCURRENTLY 155551 P 3
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2# # CONTAINMENT ATMOSPHERIC MONITOR BREAKER TRIPS AT BRUNSWICK 155870 P167
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		# CONTAINMENT	ATMOSPHERIC MONITOR FAILS AT BRUNSWICK 2#	161816 P203
BRUNSWICK 1#		# CONTAINMENT	ATMOSPHERIC MONITOR FAILS AT BRUNSWICK 2#	162707 P202
#		# CONTAINMENT	ATMOSPHERIC MONITOR FAILS DOWNSCALE AT	154518 P125
2#		# CONTAINMENT	ATMOSPHERIC MONITOR FAILS TO RUN AT BRUNSWICK 1	156184 P137
BRUNSWICK 1#		# CONTAINMENT	ATMOSPHERIC MONITOR FAILS UPSCALE AT BRUNSWICK	153734 P166
BRUNSWICK 1#	#OXYGEN CHANNEL OF	CONTAINMENT	ATMOSPHERIC MONITOR HAS A STEP INCREASE AT	154676 P127
1#		# CONTAINMENT	ATMOSPHERIC MONITOR HAS STEP CHANGED AT	156115 P128
		# CONTAINMENT	ATMOSPHERIC MONITOR INDICATES LOW AT BRUNSWICK	154314 P126
	#STEP CHANGE IN	CONTAINMENT	ATMOSPHERIC MONITOR INOPERABLE AT BRUNSWICK 2#	154733 P162
BRUNSWICK 1#		# CONTAINMENT	ATMOSPHERIC MONITOR READING AT BRUNSWICK 1#	156186 P134
CROSSE#		# CONTAINMENT	ATMOSPHERIC MONITORS FAIL DOWNSCALE AT	154522 P124
	#RHR	CONTAINMENT	COOLING VALVE FAILS TO OPEN AT QUAD-CITIES 2#	153359 P412
ROCK POINT#		# CONTAINMENT	DESIGN REVIEWED FOR STEAM LINE BREAKS AT BIG	160878 P560
DRESDEN 3#		# CONTAINMENT	DIFFERENTIAL PRESSURE NOT MAINTAINED AT	159293 P 39
		# CONTAINMENT	ELECTRICAL PENETRATION LEAKS AT LACROSSE#	153492 P224
POINT 1#		# CONTAINMENT	FILTER ACCESS COVER COMES OFF AT NINE MILE	162338 P417
	#EXCESSIVE OXYGEN CONCENTRATION IN	CONTAINMENT	FOUND AT MONTICELLO#	160871 P446
	#SET POINT DRIFT IN	CONTAINMENT	GAS ANALYZER AT BRUNSWICK 2#	159209 P435
#		# CONTAINMENT	GASEOUS MONITOR SHIFTS DOWNSCALE AT BRUNSWICK 1	160499 P156
	#SET POINT DRIFT IN	CONTAINMENT	HIGH PRESSURE SWITCH AT MILLSTONE 1#	156227 P133
		# CONTAINMENT	HYDROGEN AND OXYGEN ANALYZER FAILS AT HATCH 1#	160659 P423
		# CONTAINMENT	HYDROGEN OXYGEN ANALYZER INOPERABLE AT HATCH 2#	156972 P311
		# CONTAINMENT	HYDROGEN OXYGEN ANALYZER INOPERABLE AT HATCH 2#	159376 P295
	#UPDATE ON	CONTAINMENT	HYDROGEN OXYGEN ANALYZERS AT HATCH 2#	160340 P397
PROPERLY AT HATCH 2#		# CONTAINMENT	HYDROGEN RECOMBINER TEST NOT PERFORMED	163426 P369
	#SECONDARY	CONTAINMENT	INTEGRITY CHECK FAILED AT BRUNSWICK 1#	156695 P375
	#SECONDARY	CONTAINMENT	INTEGRITY MOMENTARILY VIOLATED AT HATCH 1#	159164 P140
	#SECONDARY	CONTAINMENT	INTEGRITY MOMENTARILY VIOLATED AT HATCH 1#	153739 P303
	#SECONDARY	CONTAINMENT	INTEGRITY MOMENTARILY VIOLATED AT HATCH 1#	156092 P308
	#SECONDARY	CONTAINMENT	INTEGRITY VIOLATED AT BROWNS FERRY 2#	159410 P318
	#SECONDARY	CONTAINMENT	INTEGRITY VIOLATED AT NINE MILE POINT 1#	161804 P 98
		# CONTAINMENT	INTEGRITY VIOLATED AT OYSTER CREEK#	159 38 P445
		# CONTAINMENT	INTEGRITY VIOLATED AT OYSTER CREEK#	160234 P461
	#PRIMARY	CONTAINMENT	INTEGRITY VIOLATED AT QUAD CITIES 1#	151667 P467
AT MONTICELLO#		# CONTAINMENT	INTEGRITY VIOLATED BY REMOVING MSIV INTERNALS	162089 P850
BOTTOM 2#		# CONTAINMENT	INTEGRITY VIOLATED DURING REFUELING AT PEACH	156047 P431
		# CONTAINMENT	ISOLATION BELLOWS APPEARS TO LEAK AT HATCH 2#	156973 P478
QUAD-CITIES 2#		# CONTAINMENT	ISOLATION NITROGEN VALVE FAILS TO CLOSE AT	162417 P405
	#TIP FAILS TO WITHDRAW FROM THE CORE ON	CONTAINMENT	ISOLATION TEST AT QUAD-CITIES 2#	159688 P258
	#GROUND FAULT OCCURS IN	CONTAINMENT	ISOLATION VALVE AT FITZPATRICK#	156101 P534
		# CONTAINMENT	ISOLATION VALVE FAILS AT COOPER#	155587 P270
	#RHR	CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT FITZPATRICK#	160096 P254
		# CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT FITZPATRICK#	156010 P277
3#		# CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT FITZPATRICK#	160917 P293
3#		# CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM	160137 P495
		# CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM	159450 P496
BRUNSWICK 2#		# CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1#	160553 P532
		# CONTAINMENT	ISOLATION VALVE FAILS TO INDICATE POSITION AT	161654 P196
	#UPDATE REPORT ON	CONTAINMENT	ISOLATION VALVE FAILURE AT FITZPATRICK#	163365 P278
	#UPDATE ON	CONTAINMENT	ISOLATION VALVE FAILURE AT PEACH BOTTOM 3#	161975 P496
LACROSSE#		# CONTAINMENT	ISOLATION VALVE INOPERABLE AT FITZPATRICK#	161768 P294
HATCH 2#		# CONTAINMENT	ISOLATION VALVE LEAK RATE EXCEEDS LIMIT AT	162016 P416
QUAD CITIES 1#		# CONTAINMENT	ISOLATION VALVE LEAK RATES EXCEED LIMIT AT	157132 P362
3#		# CONTAINMENT	ISOLATION VALVE LEAK RATES EXCEED LIMIT AT	150815 P546
POINT#		# CONTAINMENT	ISOLATION VALVE LEAKAGE EXCEEDS LIMIT AT HATCH	162703 P497
		# CONTAINMENT	ISOLATION VALVE LEAKS ACROSS SEAT AT BIG ROCK	160843 P 40
		# CONTAINMENT	ISOLATION VALVE LEAKS AT BIG ROCK POINT#	162017 P 44
		# CONTAINMENT	ISOLATION VALVE LEAKS AT HATCH 2#	162732 P408
COOPER#	#PRIMARY	CONTAINMENT	ISOLATION VALVE LEAKS EXCESSIVELY AT LACROSSE#	162014 P417
	#UPDATE ON LEAKY	CONTAINMENT	ISOLATION VALVE TIMING REQUIREMENTS NOT MET AT	152556 P247
	#TWO	CONTAINMENT	ISOLATION VALVES AT QUAD CITIES 1#	162941 P545
VERMONT YANKEE#	#TWO	CONTAINMENT	ISOLATION VALVES EXCEED LEAK RATE AT LACROSSE#	162536 P418
		# CONTAINMENT	ISOLATION VALVES EXCEED LEAK RATE LIMIT AT	161955 P581
		# CONTAINMENT	ISOLATION VALVES FAIL CLOSED AT PEACH BOTTOM 2#	160927 P483
		# CONTAINMENT	ISOLATION VALVES FAIL TO CLOSE AT QUAHE ARNOLD#	161715 P 23
#		# CONTAINMENT	ISOLATION VALVES FAIL TO CLOSE AT HATCH 2#	156992 P362
	#SEVEN	CONTAINMENT	ISOLATION VALVES FOUND CLOSED AT PEACH BOTTOM 3	160504 P499
		# CONTAINMENT	ISOLATION VALVES INOPERABLE AT PILGRIM 1#	159363 P518
		# CONTAINMENT	ISOLATION VALVES LEAK AT PILGRIM 1#	159542 P510
CLOSED AT BROWNS FERRY 3#		# CONTAINMENT	ISOLATION VALVES LOSE POWER AND TRANSFER	157035 P186
	#LEAKAGE RATE OF THREE	CONTAINMENT	ISOLATION VALVES UNACCEPTABLE AT HATCH 2#	159432 P358
BIG ROCK POINT#		# CONTAINMENT	ISOLATION VALVES' LEAK RATES EXCEED LIMIT AT	163348 P 45
PEACH BOTTOM 2#	#SEVERAL	CONTAINMENT	ISOLATION VALVES' LEAK RATES EXCEED LIMITS AT	160378 P479
ROCK POINT#	#DAMAGE MIGHT OCCUR TO	CONTAINMENT	ISOLATION VENTILATOR VALVE OPERATORS AT BIG	156094 P 36
	#TUBING GOING INTO	CONTAINMENT	LACKS PROPER SUPPORT AT HATCH 1#	158738 P319
	#TOTAL	CONTAINMENT	LEAK RATE EXCEEDS LIMIT AT BROWNS FERRY 1#	155532 P 55
		# CONTAINMENT	LEAK RATE EXCEEDS LIMIT AT BROWNS FERRY 2#	161792 P 90
VERMONT YANKEE#	#EXCESSIVE PRIMARY	CONTAINMENT	LEAKAGE FOUND AT COOPER#	159542 P246
		# CONTAINMENT	MONITORING ISOLATION VALVE FAILS TO CLOSE AT	156089 P572
		# CONTAINMENT	NOT INERTED IN TIME AT COOPER#	163552 P259
	#MOMENTARY BREACH OF SECONDARY	CONTAINMENT	OCCURS AT BROWNS FERRY 2#	155236 P 81
	#DRIFT IN	CONTAINMENT	OXYGEN ANALYZER AT BRUNSWICK 1#	160816 P157
	#DRIFT IN	CONTAINMENT	OXYGEN ANALYZER AT BRUNSWICK 2#	160819 P193
	#SET POINT DRIFT IN	CONTAINMENT	OXYGEN ANALYZER AT BRUNSWICK 2#	161901 P201
BRUNSWICK 1#		# CONTAINMENT	OXYGEN ANALYZER GIVES ERRATIC INDICATIONS AT	158661 P145
		# CONTAINMENT	OXYGEN ANALYZER INOPERABLE AT BRUNSWICK 1#	161650 P154
		# CONTAINMENT	OXYGEN ANALYZER INOPERABLE AT BRUNSWICK 2#	160873 P191

CITIES 2*		# CONTAINMENT	OXYGEN ANALYZER VALVE FAILS TO CLOSE AT QUAD	153487 P550
BRUNSWICK 2*	#UPDATE ON	CONTAINMENT	OXYGEN CONCENTRATION EXCEEDING LIMIT AT	163503 P191
BRUNSWICK 2*		# CONTAINMENT	OXYGEN CONCENTRATION EXCEEDS LIMIT AT	160874 P191
BRUNSWICK 2*		# CONTAINMENT	OXYGEN CONCENTRATION EXCEEDS LIMIT AT	160820 P193
BRUNSWICK 2*		# CONTAINMENT	OXYGEN CONCENTRATION EXCEEDS LIMIT AT	161017 P199
		# CONTAINMENT	OXYGEN CONCENTRATION EXCEEDS LIMIT AT HATCH 1*	156187 P312
		# CONTAINMENT	OXYGEN CONCENTRATION EXCEEDS LIMIT AT HATCH 1*	158598 P316
HATCH 1*		# CONTAINMENT	OXYGEN CONCENTRATION EXCEEDS LIMITS TWICE AT	159627 P329
		# CONTAINMENT	OXYGEN MONITOR FAILS AT BRUNSWICK 1*	160527 P156
		# CONTAINMENT	PRESSURE RECORDER FAILS DOWNSCALE AT ARNOLD*	154507 P 1
	#SET POINT DRIFT IN	CONTAINMENT	PRESSURE SWITCH AT QUAD-CITIES 2*	161458 P861
ARNOLD*		# CONTAINMENT	PRESSURE SWITCHES TRIP OUT OF SPECS AT DUANE	160268 P 11
REQUIRED AT HATCH 2*		# CONTAINMENT	PURGE OPERATED TOO LONG WHEN INTEGRITY	158652 P380
HATCH 2*		# CONTAINMENT	PURGE VACUUM BREAKER PRESSURE SWITCH FAILS AT	158726 P369
		# CONTAINMENT	PURGE VALVE FAILS TO CLOSE AT COOPER*	155582 P243
CLOSED AT PEACH BOTTOM 2*		# CONTAINMENT	RADIOACTIVE GAS SAMPLER ISOLATION VALVES FAIL	160073 P482
		# CONTAINMENT	SAMPLE EXHAUST PUMP FAILS AT PEACH BOTTOM 3*	160480 P498
*		# CONTAINMENT	SPRAY HEAT EXCHANGER TUBES LEAK AT OYSTER CREEK	155993 P483
1*		# CONTAINMENT	SPRAY ISOLATION VALVE FAILS AT NINE MILE POINT	158697 P441
AT PEACH BOTTOM 3*		# CONTAINMENT	SPRAY OUTBOARD ISOLATION VALVE FAILS TO CLOSE	159095 P494
	#SET POINT DRIFT IN	CONTAINMENT	SPRAY PRESSURE SWITCH AT DUANE ARNOLD*	160460 P 18
	#SET POINT DRIFT IN	CONTAINMENT	SPRAY PRESSURE SWITCHES AT DUANE ARNOLD*	158512 P 5
	#SET POINT DRIFT IN	CONTAINMENT	SPRAY PRESSURE SWITCHES AT OYSTER CREEK*	161783 P467
	#SET POINT DRIFT IN	CONTAINMENT	SPRAY SWITCHES AT OYSTER CREEK*	162041 P470
		# CONTAINMENT	SPRAY VALVE FAILS TO OPEN AT HATCH 1*	156991 P315
	#UPDATE ON	CONTAINMENT	SPRAY VALVE FAILURE AT PEACH BOTTOM 3*	163583 P494
		# CONTAINMENT	SUMP ISOLATION VALVE FAILS TO CLOSE AT VERMONT	158722 P573
YANKEE*		# CONTAINMENT	TEMPERATURE RECORDER FAILS TO PRINT AT HATCH 1*	158686 P328
		# CONTAINMENT	VACUUM BREAKER INOPERABLE AT DRESDEN 3*	160230 P234
		# CONTAINMENT	VACUUM BREAKER INOPERABLE AT PILGRIM 1*	162533 P536
HATCH 2.*		# CONTAINMENT	VACUUM BREAKER LIGHTS FAIL TO INDICATE OPEN AT	154619 P347
		# CONTAINMENT	VACUUM BREAKER VALVE FAILS CLOSED AT HATCH 2*	158445 P384
	#SET POINT DRIFT IN	CONTAINMENT	VENT AND FUEL POOL MONITORS AT DRESDEN 3*	156336 P229
LIMIT AT DRESDEN 3*		# CONTAINMENT	VENT LINE ISOLATION VALVE LEAKAGE EXCEEDS	155521 P227
AT LA CROSSE*		# CONTAINMENT	VENTILATION EXHAUST FAN ISOLATION DAMPER LEAKS	158307 P613
PEACH BOTTOM 2*		# CONTAINMENT	VENTILATION ISOLATION VALVE FAILS TO CLOSE AT	159440 P497
		# CONTAINMENT	VENTILATION VALVE LEAKS AT PEACH BOTTOM 3*	160141 P497
	#BACKUP AIR SUPPLIES TO	CONTAINMENT	VENTILATION VALVES FAIL AT PEACH BOTTOM 3*	155501 P491
	#WASTE OIL STORAGE AREA SOIL	CONTAMINATED	AT HATCH 1 AND 2*	162088 P345
	#SOIL UNDER TURBINE BUILDING	CONTAMINATED	AT LACROSSE*	162539 P416
		# CONTAMINATED	WATER RELEASED WITHOUT SAMPLING AT ARNOLD*	156218 P 27
	#MILK SAMPLE CESIUM	CONTENT	EXCEEDS CONTROL BY FACTOR OF TEN AT PILGRIM 1*	157023 P507
	#NITROGEN STORAGE TANK	CONTENTS	FALL BELOW LIMIT AT HATCH 1*	162741 P344
	#DRYWELL	CONTINUOUS	AIR MONITOR FLOW LOW AT BROWNS FERRY 1*	153956 P 47
YANKEE*		# CONTINUOUS	AIR SAMPLING STATION INOPERABLE AT VERMONT	162048 P581
#COBALT AND SILVER ACTIVITY LEVELS EXCEED TEN TIMES		CONTROL	ACTIVITIES AT HILLSTONE*	161680 P625
#OYSTER SAMPLE SILVER ACTIVITY EXCEEDS TEN TIMES		CONTROL	ACTIVITY AT HILLSTONE*	161827 P626
BIG ROCK POINT*		# CONTROL	AIR TUBING TO AUX SYSTEM COOLING VALVE BROKEN AT	154659 P 32
	#DRYWELL	CONTROL	AIR VALVE FAILS TO CLOSE AT BROWNS FERRY 2*	160154 P 94
#RCIC TRIPPED ON OVERSPEED DUE TO LOSS OF SPEED		CONTROL	AT BROWNS FERRY 3*	157436 P107
#DIESEL GENERATOR FAILS TO RESPOND TO VOLTAGE		CONTROL	AT DUANE ARNOLD*	160401 P 21
#RCIC FAILS TO RESPOND TO SPEED		CONTROL	AT HATCH 1*	159502 P324
#125V DC		CONTROL	BATTERY CHARGER FAILS AT PILGRIM 1*	160239 P523
#ELECTRONIC ANNUNCIATION NOT ON DOOR TO		CONTROL	BUILDING AT HATCH 1*	156085 P308
BRUNSWICK 2*		# CONTROL	BUILDING EMERGENCY FILTER FAN FAILS TO START AT	162727 P197
ARNOLD*		# CONTROL	BUILDING ISOLATION DAMPER FAILS TO CLOSE AT DUANE	160457 P 18
#NINE		CONTROL	BUILDING WALLS OVERSTRESSED AT HATCH 1*	160843 P342
#MILK SAMPLE CESIUM CONTENT EXCEEDS		CONTROL	BY FACTOR OF TEN AT PILGRIM 1*	157023 P507
#CONTAINMENT ATMOSPHERIC		CONTROL	CABLE NOT ROUTED PROPERLY AT HATCH 1*	158791 P320
#SAFETY RELATED MOTOR		CONTROL	CENTER FEEDER BREAKER TRIPS AT QUAD CITIES 1*	158624 P542
#SETPOINT DRIFT IN STANDBY LIQUID		CONTROL	DISCHARGE RELIEF VALVE AT HATCH 2*	157072 P367
#RCIC TURBINE		CONTROL	FAILS AT FITZPATRICK*	159382 P290
#MSL LEAKAGE		CONTROL	FLOW INDICATOR FAILS AT HATCH 2*	159593 P385
#SET POINT DRIFT IN ELECTROHYDRAULIC		CONTROL	FLUID PRESSURE SWITCH AT QUAD-CITIES 1*	156962 P542
#FEEDWATER	FITZPATRICK*	CONTROL	LEVEL TRANSMITTER FOUND OUT OF CALIBRATION AT	156915 P277
#RCIC REMOTE SHUTDOWN FLOW		CONTROL	LOOP FAILS AT HATCH 2*	154739 P352
#DIESEL GENERATOR SPEED		CONTROL	LOST AT BROWNS FERRY 1*	154441 P 47
#HPCI		CONTROL	POWER FAILS AT VERMONT YANKEE*	160337 P578
#RCIC		CONTROL	POWER FUSE OPENS AT MONTICELLO*	158818 P434
#HPCI AUTOMATIC FLOW		CONTROL	POWER INVERTER TRIPS AT HATCH 2*	153795 P349
		# CONTROL	POWER TO DIESEL GENERATOR FAILS AT BRUNSWICK 1*	156922 P142
		# CONTROL	POWER TO RHR VALVE FAILS AT COOPER*	155586 P243
#STANDBY LIQUID		CONTROL	PUMP BREAKER TRIPS INADVERTENTLY AT BROWNS FERRY 3*	161936 P121
#STANDBY LIQUID		CONTROL	PUMP FAILS OPERABILITY TEST AT HATCH 2*	156937 P368
#SET POINT DRIFT IN STANDBY LIQUID		CONTROL	RELIEF VALVE AT HATCH 1*	154889 P303
#STANDBY LIQUID		CONTROL	RELIEF VALVE FAILS TO OPEN AT BRUNSWICK 1*	159199 P147
#SETPOINT DRIFT IN STANDBY LIQUID		CONTROL	RELIEF VALVES AT DRESDEN 3*	156016 P228
		# CONTROL	ROD BLOCK MONITOR FAILS AT DRESDEN 3*	160922 P237
		# CONTROL	ROD BLOCK MONITOR INOPERABLE AT DUANE ARNOLD*	159561 P 16
		# CONTROL	ROD BLOCK MONITOR INOPERABLE AT PILGRIM 1*	159585 P511
		# CONTROL	ROD BLOCK MONITOR SETPOINT DRIFTS AT BRUNSWICK 1*	160467 P191
AT FITZPATRICK*		# CONTROL	ROD BLOCK NOT GENERATED BY REFUEL BRIDGE MOVEMENT	160260 P263
		# CONTROL	ROD DRIFTS OUT AT BROWNS FERRY 2*	158725 P 88
FERRY 1*		# CONTROL	ROD DRIVE ACCUMULATOR LEVEL SWITCH FAILS AT BROWNS	155296 P 49
2*	#SET POINT DRIFT IN	CONTROL	ROD DRIVE ACCUMULATOR PRESSURE INDICATORS AT HATCH	158644 P378
INCORRECTLY AT HATCH 2*		# CONTROL	ROD DRIVE ACCUMULATOR PRESSURE SWITCHES SET	157131 P381
PRESSURE AT HATCH 1*		# CONTROL	ROD DRIVE ACCUMULATORS FAIL TO MAINTAIN NITROGEN	160269 P321

	#	CONTROL	ROD DRIVE FAILS TO WITHDRAW AT BRUNSWICK 2*	160047 P185
	#UPDATE REPORT ON	CONTROL	ROD DRIVE HOUSING LEAK AT BIG ROCK POINT*	153935 P 29
STRESS LIMITS AT MONTICELLO*	#	CONTROL	ROD DRIVE HYDRAULIC PIPE SUPPORTS FAIL TO MEET	156339 P433
POINT*	#	CONTROL	ROD DRIVE PUMP VIBRATES EXCESSIVELY AT BIG ROCK	155473 P 34
	#TWO	CONTROL	ROD DRIVE PUMPS INOPERABLE AT OYSTER CREEK*	162046 P468
ADEQUATE AT DRESDEN 2*	#	CONTROL	ROD DRIVE SCRAM DISCHARGE PIPE SUPPORTS ARE NOT	158692 P214
MODIFICATION AT DRESDEN 3*	#	CONTROL	ROD DRIVE SCRAM DISCHARGE PIPE SUPPORTS REQUIRE	158706 P234
AT NINE MILE POINT*	#	CONTROL	ROD DRIVE SCRAM PILOT SOLENOIDS NOT TESTED ON TIME	163384 P447
	#LEAK IN	CONTROL	ROD DRIVE SYSTEM RETURN LINE AT BIG ROCK POINT*	161911 P 45
	#UPDATE REPORT ON	CONTROL	ROD DRIVE TEMPERATURE AT BIG ROCK POINT*	153975 P 31
	#	CONTROL	ROD FAILS TO INSERT AT BROWNS FERRY 3*	154896 P103
	#	CONTROL	ROD FAILS TO SCRAM AT NINE MILE POINT 1*	158780 P443
	#	CONTROL	ROD FAILS TO WITHDRAW AT MONTICELLO*	160336 P437
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	#	CONTROL	ROD INCORRECTLY WITHDRAWN AT COOPER*	158686 P248
#FUEL ASSEMBLY LOADED INTO CELL WITHOUT		CONTROL	ROD INSERTED AT ARNOLD*	156078 P 7
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	#	CONTROL	ROD POSITION INDICATION FAILS AT BRUNSWICK 1*	160304 P141
	#	CONTROL	ROD POSITION INDICATION FAILS AT BRUNSWICK 1*	161687 P195
	#	CONTROL	ROD POSITION INDICATION FAILS AT DRESDEN 2*	159447 P218
	#	CONTROL	ROD POSITION INDICATION INCORRECT AT BRUNSWICK 2*	161626 P198
	#	CONTROL	ROD POSITION INDICATION LOST AT DRESDEN 2*	160056 P220
	#	CONTROL	ROD POSITION INDICATION LOST AT DRESDEN 2*	160925 P220
	#TWO	CONTROL	ROD POSITION INDICATIONS FAIL AT BRUNSWICK 2*	160146 P182
	#	CONTROL	ROD POSITION INDICATIONS LOST AT BRUNSWICK 1*	163506 P157
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#MAIN		COOLANT	ALPHA ACTIVITY EXCEEDS LIMIT AT LA CROSSE*	160364 P415
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* #	DIESEL GENERATOR FAILS TO START IN TIME AT BRUNSWICK 1*	161078	P186
#	DIESEL GENERATOR FAILS TO START WITHIN SEVEN SECONDS AT	153506	P297
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#	DIESEL GENERATOR FAILS TO TIE TO BUS AT HATCH 2*	158298	P366
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*	#	DIESEL GENERATOR	LOWER CRANKSHAFT THRUST BEARING WIPED AT	155403 P 7
*	#	DIESEL GENERATOR	LUBE OIL LEVEL DROPS BELOW LIMIT AT ARNOLD	153730 P 2
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#HPCI SUCTION LINE ISOLATION VALVE LEAKS AT DRESDEN 3 157051 P230
#DIESEL GENERATOR FAILS TO START AT DRESDEN 3 157050 P231
#PRESSURE SWITCH IN MAIN STEAM SYSTEM TRIPS AT DRESDEN 3 157058 P231
#CORE SPRAY RELIEF VALVE LEAKS AT DRESDEN 3 156987 P231
#AUTOMATIC DEPRESSURIZATION VALVES FAIL TO OPEN AT DRESDEN 3 158231 P232
#REACTOR WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3 158749 P232
#REACTOR WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3 158750 P233
#LPCI HEAT EXCHANGER TUBES LEAK AT DRESDEN 3 158705 P233
#CONTAINMENT VACUUM BREAKER INOPERABLE AT DRESDEN 3 160230 P234
#MSIV CLOSURE TIMES EXCEED LIMITS AT DRESDEN 3 160176 P235
#SCRAM DISCHARGE VOLUME FAILS TO DRAIN AND ALARMS CLEAR AT DRESDEN 3 158229 P235
#APRM FAILS TO INITIATE ROD BLOCK AT DRESDEN 3 159533 P235
#CCSW PUMP CASING LEAKS AT DRESDEN 3 159547 P236
#REACTOR RECIRCULATION PUMP SPEED CONTROLLER FAILS AT DRESDEN 3 160456 P236
#STANDBY GAS TREATMENT SYSTEM TRIPS AT DRESDEN 3 161062 P236
#CONTROL ROD BLOCK MONITOR FAILS AT DRESDEN 3 160922 P237
#SET POINT DRIFT IN RPS LEVEL SWITCH AT DRESDEN 3 161468 P237
#LEAK IN REACTOR WATER CLEANUP HEAT EXCHANGER LINE AT DRESDEN 3 161882 P237
#RCIC ISOLATION CONDENSER VALVE INOPERABLE AT DRESDEN 3 161457 P238
#HPCI STEAM SUPPLY VALVE FAILS TO OPEN AT DRESDEN 3 160903 P238
#CONDENSER VENT ISOLATION VALVE INOPERABLE AT DRESDEN 3 161443 P238
#SET POINT DRIFT IN SOURCE RANGE MONITOR AT DRESDEN 3 161456 P239
#LPCI HEAT EXCHANGER LEAKS AT DRESDEN 3 163345 P239
#REACTOR PRESSURE AND COOLANT TEMPERATURE EXCEED LIMIT AT DRESDEN 3 163344 P240
POINT DRIFT IN CONTAINMENT VENT AND FUEL POOL MONITORS AT DRESDEN 3 #SET 156136 P289

STEAM LINE HIGH FLOW SWITCH FAILS TO TRIP ON SETPOINT AT		DRESDEN 3•	#MAIN	158821 P233
VENT LINE ISOLATION VALVE LEAKAGE EXCEEDS LIMIT AT		DRESDEN 3•	#CONTAINMENT	158821 P227
DRIVE SCRAM DISCHARGE PIPE SUPPORTS REQUIRE MODIFICATION AT		DRESDEN 3•	#CONTROL ROD	158706 P234
#A ROD		DRIFT ALARMS ANNUNCIATES INTERMITTENTLY AT BRUNSWICK 1•		156557 P123
CHANNEL AT FITZPATRICK•	#SET POINT	DRIFT AND FAILURE OF AVERAGE POWER RANGE MONITORS IN ONE		158627 P280
PRESSURE PERMISSIVE AND PRESSURE SWITCHES HAVE SETPOINT		DRIFT AT BROWNS FERRY 3•	#TURBINE	159108 P110
#CRD HYDRAULIC CONTROL UNIT INSTRUMENT READINGS		DRIFT AT FITZPATRICK•		159226 P285
#RPS, HPCI, RCIS, AND CS PRESSURE SWITCHES SETPOINTS		DRIFT AT HATCH 2•		159591 P305
#ELECTRONIC		DRIFT CAUSES INCORRECT RCD BLOCK TRIP AT DRESDEN 2•		157696 P232
#SET POINT		DRIFT FOUND IN MSIV CLOSURE TIMING AT QUAD-CITIES 2•		159569 P555
#SET POINT		DRIFT IN APRM AT FITZPATRICK•		156672 P264
#SET POINT		DRIFT IN APRM CHANNEL AT BROWNS FERRY 3•		163457 P102
#SET POINT		DRIFT IN APRM CHANNEL AT FITZPATRICK•		156503 P264
#SET POINT		DRIFT IN AUTOMATIC BLOWDOWN TIMER RELAY AT QUAD CITIES 2•		156491 P552
#SETPOINT		DRIFT IN CONDENSATE STORAGE TANK LEVEL SWITCH AT		156197 P276
#SET POINT		DRIFT IN CONDENSATE STORAGE TANK LEVEL SWITCH AT BRUNSWICK		155565 P127
#SET POINT		DRIFT IN CONDENSER LOW VACUUM SWITCH AT PILGRIM 1•		156158 P507
#SET POINT		DRIFT IN CONDENSER PRESSURE SWITCH AT DRESDEN 2•		161071 P221
#SET POINT		DRIFT IN CONTAINMENT ATMOSPHERE MONITOR AT BRUNSWICK 1•		163502 P150
#SET POINT		DRIFT IN CONTAINMENT GAS ANALYZER AT BRUNSWICK 2•		160499 P186
#SET POINT		DRIFT IN CONTAINMENT HIGH PRESSURE SWITCH AT MILLSTONE 1•		160459 P483
#		DRIFT IN CONTAINMENT OXYGEN ANALYZER AT BRUNSWICK 1•		160816 P157
#		DRIFT IN CONTAINMENT OXYGEN ANALYZER AT BRUNSWICK 2•		160819 P193
#SET POINT		DRIFT IN CONTAINMENT OXYGEN ANALYZER AT BRUNSWICK 2•		161781 P201
#SET POINT		DRIFT IN CONTAINMENT PRESSURE SWITCH AT QUAD-CITIES 2•		161458 P561
#SET POINT		DRIFT IN CONTAINMENT SPRAY PRESSURE SWITCH AT DUANE ARNOLD•		160460 P 10
#SET POINT		DRIFT IN CONTAINMENT SPRAY PRESSURE SWITCHES AT DUANE		155512 P 5
#SET POINT		DRIFT IN CONTAINMENT SPRAY PRESSURE SWITCHES AT OYSTER		161763 P467
#SET POINT		DRIFT IN CONTAINMENT SPRAY SWITCHES AT OYSTER CREEK•		162041 P470
#SET POINT		DRIFT IN CONTAINMENT VENT AND FUEL POOL MONITORS AT		156336 P229
#SET POINT		DRIFT IN CONTROL ROD DRIVE ACCUMULATOR PRESSURE INDICATORS		156044 P378
#SET POINT		DRIFT IN CORE SPRAY PERMISSIVE SWITCH AT FITZPATRICK•		156664 P265
#SETPOINT		DRIFT IN CORE SPRAY PIPE BREAK DETECTION SWITCHES AT		159313 P280
#SET POINT		DRIFT IN CORE SPRAY PRESSURE SWITCH AT DUANE ARNOLD•		160353 P 17
#SET POINT		DRIFT IN CORE SPRAY PRESSURE SWITCH AT PEACH BOTTOM 2•		160350 P483
#SET POINT		DRIFT IN CORE SPRAY PRESSURE SWITCHES AT OYSTER CREEK•		162044 P460
#SET POINT		DRIFT IN CORE SPRAY PUMP DISCHARGE PRESSURE SWITCH AT		156017 P488
#SET POINT		DRIFT IN CORE SPRAY SWITCH AT BROWNS FERRY 1•		163330 P 78
#SET POINT		DRIFT IN DEMINERALIZER TEMPERATURE SWITCH AT PEACH BOTTOM 2		162047 P487
#		DRIFT IN DRYWELL AND TORUS TEMPERATURE RECORDER AT HATCH 1•		160128 P335
#SET POINT		DRIFT IN DRYWELL HIGH PRESSURE SWITCH AT BROWNS FERRY 3•		161500 P118
#SET POINT		DRIFT IN DRYWELL HIGH PRESSURE SWITCH AT DUANE ARNOLD•		161000 P 23
#SET POINT		DRIFT IN DRYWELL HIGH PRESSURE SWITCHES AT OYSTER CREEK•		160817 P488
#SET POINT		DRIFT IN DRYWELL PRESSURE SWITCH AT PEACH BOTTOM 3•		157744 P496
#SET POINT		DRIFT IN ELECTROHYDRAULIC CONTROL FLUID PRESSURE SWITCH AT		156902 P562
#SET POINT		DRIFT IN FISSION PRODUCT MONITOR AT HATCH 1•		162743 P363
#SET POINT		DRIFT IN HIGH DRYWELL PRESSURE SWITCH AT FITZPATRICK•		160630 P291
#SET POINT		DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT HATCH 2•		154946 P381
#SET POINT		DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT HATCH 2•		158774 P347
#SET POINT		DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT OYSTER CREEK•		160326 P462
#SET POINT		DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT OYSTER CREEK•		161644 P466
#SET POINT		DRIFT IN HIGH STEAMLINE RADIATION CHANNEL AT BRUNSWICK 1•		157057 P134
#SET POINT		DRIFT IN HIGH STEAMLINE RADIATION CHANNEL AT BRUNSWICK 1•		160317 P148
#SET POINT		DRIFT IN HPCI DIFFERENTIAL PRESSURE SWITCH AT HATCH 1•		154692 P161
#SET POINT		DRIFT IN HPCI DIFFERENTIAL PRESSURE SWITCH AT HATCH 1•		154692 P298
#SET POINT		DRIFT IN HPCI EXHAUST PRESSURE SWITCHES AT HATCH 2•		156130 P356
#SET POINT		DRIFT IN HPCI STEAM FLOW SENSOR AT PEACH BOTTOM 2•		160488 P481
#SET POINT		DRIFT IN HPCI STEAM LINE DP SWITCH AT HATCH 2•		161872 P488
#SET POINT		DRIFT IN HPCI STEAM LINE FLOW SWITCH AT HATCH 2•		158771 P388
#SET POINT		DRIFT IN HPCI STEAM LINE SPACE TEMPERATURE SWITCH AT		161796 P 77
#SET POINT		DRIFT IN HPCI STEAMLINE HIGH D/P SWITCH AT BRUNSWICK 2•		158107 P173
#SET POINT		DRIFT IN HPCI STEAMLINE LOW PRESSURE SWITCH AT HATCH 1•		161614 P362
#SET POINT		DRIFT IN HPCI TURBINE AREA HIGH TEMPERATURE SWITCH AT QUAD		160451 P567
#SET POINT		DRIFT IN HPCI TURBINE PRESSURE SWITCH AT HATCH 2•		160819 P399
#SET POINT		DRIFT IN ISOLATION CONDENSER CONDENSATE FLOW SWITCH AT		159263 P215
#SET POINT		DRIFT IN ISOLATION CONDENSER FLOW SWITCH AT DRESDEN 2•		160002 P211
#SET POINT		DRIFT IN LOW REACTOR LEVEL SWITCHES AT COOPER•		161622 P284
#SET POINT		DRIFT IN LOW WATER LEVEL SCRAM SWITCH AT MILLSTONE 1•		160923 P484
#SET POINT		DRIFT IN LPCI DRYWELL HIGH PRESSURE SWITCH AT DRESDEN 2•		163379 P222
#SET POINT		DRIFT IN LPCI PRESSURE PERMISSIVE AT PILGRIM 1•		157044 P507
#SET POINT		DRIFT IN MAIN STEAM LINE AREA TEMPERATURE SWITCHES AT		156044 P430
#SET POINT		DRIFT IN MAIN STEAM LINE HIGH FLOW SWITCH AT MILLSTONE 1•		156195 P428
#SET POINT		DRIFT IN MAIN STEAM LINE HIGH RADIATION MONITOR AT		154682 P130
#SET POINT		DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT MONTICELLO•		155191 P428
#SET POINT		DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT PEACH		162487 P486
#SET POINT		DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT QUAD		159348 P557
#SET POINT		DRIFT IN MAIN STEAM LINE PRESSURE SWITCH AT DRESDEN 2•		163518 P223
#SET POINT		DRIFT IN MAIN STEAM LINE RADIATION MONITOR AT BRUNSWICK 2•		154559 P162
#SET POINT		DRIFT IN MAIN STEAM LINE TEMPERATURE SWITCHES AT HATCH 2•		157129 P361
#SET POINT		DRIFT IN MAIN STEAM RELIEF VALVES AT VERMONT YANKEE•		160930 P578
#SET POINT		DRIFT IN MAINSTEAM LINE HIGH FLOW SWITCH AT BROWNS FERRY 2•		153489 P 79
#SET POINT		DRIFT IN MSIV LOW PRESSURE SENSORS AT OYSTER CREEK•		159678 P466
#		DRIFT IN POWER RANGE MONITOR AT BROWNS FERRY 3•		161633 P118
#SET POINT		DRIFT IN PRESSURE RELIEF VALVE AT VERMONT YANKEE•		160938 P578
#SET POINT		DRIFT IN PRESSURE SWITCH AT BROWNS FERRY 3•		161680 P119
#SETPOINT		DRIFT IN PRESSURE SWITCHES FOR REACTOR PROTECTION SYSTEM		158276 P422
#SET POINT		DRIFT IN RCIC DIFFERENTIAL PRESSURE SWITCH AT VERMONT		153490 P565

FITZPATRICK• 1•

ARNOLD• CREEK•

DRESDEN 3• AT HATCH 2•

FITZPATRICK•

PEACH BOTTOM 2•

•

QUAD-CITIES 1•

BROWNS FERRY 1•

CITIES 1•

DRESDEN 2•

MONTICELLO•

BRUNSWICK 1•

BOTTOM 2• CITIES 2•

AT MILLSTONE 1• YANKEE•

	#SET POINT	DRIFT IN RCIC EXHAUST PRESSURE SWITCH AT BRUNSWICK 2*	155317 P173
	#SET POINT	DRIFT IN RCIC FLOW INSTRUMENT AT HATCH 1*	154493 P268
	#SET POINT	DRIFT IN RCIC FLOW SWITCH AT HATCH 1*	156036 P389
FERRY 3*	#SET POINT	DRIFT IN RCIC HIGH STEAM FLOW SWITCH AT FITZPATRICK*	154653 P291
*	#SET POINT	DRIFT IN RCIC REACTOR WATER LEVEL TRIP SWITCH AT BROWNS	159284 P113
	#SET POINT	DRIFT IN RCIC STEAM LINE LOW PRESSURE SWITCH AT FITZPATRICK	153604 P296
PEACH BOTTOM 2*	#SET POINT	DRIFT IN RCIC TURBINE EXHAUST PRESSURE SWITCHES AT HATCH 1*	155326 P307
CREEK*	#SET POINT	DRIFT IN RCIC TURBINE STEAM FLOW SWITCH AT PEACH BOTTOM 3*	155347 P491
	#SET POINT	DRIFT IN RCIC TURBINE STEAM LINE HIGH FLOW SWITCHES AT	161779 P484
	#SET POINT	DRIFT IN REACTOR HIGH PRESSURE SCRAM SENSORS AT OYSTER	159326 P440
	#SET POINT	DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT BROWNS FERRY 2*	159336 P 90
	#SET POINT	DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT HATCH 2*	160370 P386
	#SET POINT	DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT*	157074 P 34
	#SET POINT	DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT*	157076 P 35
CREEK 1*	#SET POINT	DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT*	160170 P 41
	#SET POINT	DRIFT IN REACTOR LO-LO-LO WATER LEVEL SWITCHES AT OYSTER	161873 P468
	#SET POINT	DRIFT IN REACTOR LOW PRESSURE SWITCH AT BROWNS FERRY 3*	157716 P109
	#SET POINT	DRIFT IN REACTOR LOW PRESSURE SWITCH AT BRUNSWICK 2*	159604 P178
	#SET POINT	DRIFT IN REACTOR LOW PRESSURE SWITCH AT BRUNSWICK 2*	161065 P193
	#SET POINT	DRIFT IN REACTOR LOW PRESSURE SWITCH AT VERMONT YANKEE*	154714 P586
	#SET POINT	DRIFT IN REACTOR LOW PRESSURE SWITCHES AT BRUNSWICK 2*	158795 P171
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SENSOR AT OYSTER CREEK*	161148 P468
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 1*	160341 P139
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 1*	156932 P143
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 2*	156936 P178
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 2*	161652 P197
	#	DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT QUAD CITIES 1*	156912 P542
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SWITCHES AT BRUNSWICK 1*	163668 P157
	#SET POINT	DRIFT IN REACTOR LOW WATER LEVEL SWITCHES AT BRUNSWICK 2*	161069 P182
	#SET POINT	DRIFT IN REACTOR PRESSURE SWITCH AT BROWNS FERRY 2*	156948 P 87
	#SET POINT	DRIFT IN REACTOR PRESSURE SWITCH AT HATCH 2*	160630 P397
	#SET POINT	DRIFT IN REACTOR PRESSURE SWITCHES AT BROWNS FERRY 3*	153656 P102
BOTTOM 3*	#SET POINT	DRIFT IN REACTOR VESSEL SHROUD LEVEL SWITCH AT BRUNSWICK 1*	154554 P124
	#SET POINT	DRIFT IN REACTOR WATER CLEANUP TEMPERATURE SWITCH AT PEACH	160631 P498
	#SET POINT	DRIFT IN REACTOR WATER LEVEL SENSORS AT OYSTER CREEK*	159672 P463
	#SET POINT	DRIFT IN REACTOR WATER LEVEL SWITCH AT BROWNS FERRY 2*	155205 P 81
FITZPATRICK*	#	DRIFT IN REACTOR WATER LEVEL SWITCH AT DRESDEN 2*	155197 P288
	#SET POINT	DRIFT IN REACTOR WATER LEVEL SWITCH SET POINT AT	161717 P494
	#SET POINT	DRIFT IN REACTOR WATER LEVEL SWITCHES AT FITZPATRICK*	163361 P295
	#	DRIFT IN REACTOR WATER LEVEL TRANSMITTER AT BIG ROCK POINT*	158777 P 37
	#SET POINT	DRIFT IN RECIRCULATION FLOW SENSORS AT OYSTER CREEK*	155560 P452
	#SET POINT	DRIFT IN RECIRCULATION VALVE SWITCH AT BROWNS FERRY 3*	161734 P123
*	#SET POINT	DRIFT IN REMOTE SHUTDOWN FLOOR RADIATION MONITOR AT DRESDEN 2*	160524 P221
	#SET POINT	DRIFT IN RHR LOW PRESSURE PERMISSIVE SWITCH AT QUAD CITIES	155510 P 4
	#SET POINT	DRIFT IN RHR PUMP START RELAY AT HATCH 2*	156133 P358
FITZPATRICK*	#SET POINT	DRIFT IN RPS LEVEL SWITCH AT DRESDEN 2*	161460 P237
#	#SET POINT	DRIFT IN SHUTDOWN COOLING PERMISSIVE SWITCHES AT	158634 P201
HATCH 2*	#SET POINT	DRIFT IN SHUTDOWN COOLING PRESSURE SWITCH AT PEACH BOTTOM 3	159410 P493
	#SET POINT	DRIFT IN SHUTDOWN COOLING SYSTEM PRESSURE SWITCHES AT	158662 P379
OYSTER CREEK*	#SET POINT	DRIFT IN SOURCE RANGE MONITOR AT DRESDEN 2*	161436 P239
HATCH 2*	#SETPOINT	DRIFT IN STANDBY GAS TREATMENT RADIATION MONITORS AT	155557 P451
	#SETPOINT	DRIFT IN STANDBY LIQUID CONTROL DISCHARGE RELIEF VALVE AT	157072 P367
	#SET POINT	DRIFT IN STANDBY LIQUID CONTROL RELIEF VALVE AT HATCH 1*	154888 P383
	#SETPOINT	DRIFT IN STANDBY LIQUID CONTROL RELIEF VALVES AT DRESDEN 3*	156010 P226
	#SET POINT	DRIFT IN STEAM LINE OVER TEMPERATURE SWITCH AT DRESDEN 3*	155445 P229
	#SET POINT	DRIFT IN STEAM LINE PRESSURE SWITCH AT PEACH BOTTOM 2*	161961 P488
CITIES 2*	#SETPOINT	DRIFT IN THREE RELIEF VALVES AT ARNOLD*	158225 P 6
POINT 1*	#SET POINT	DRIFT IN TORUS VACUUM BREAKER PRESSURE SWITCH AT QUAD	159344 P557
	#SET POINT	DRIFT IN TURBINE ANTICIPATORY TRIP SWITCH AT NINE MILE	159235 P442
AT BROWNS FERRY 1*	#SET POINT	DRIFT IN TURBINE CONTROL VALVE PRESSURE SWITCH AT HATCH 2*	156118 P359
1*	#SET POINT	DRIFT IN TURBINE FIRST STAGE PRESSURE PERMISSIVE SWITCHES	159418 P 68
BROWNS FERRY 2*	#SET POINT	DRIFT IN TURBINE REACTOR SCRAM SWITCHES AT NINE MILE POINT	160313 P444
1*	#SET POINT	DRIFT OCCURS ON TURBINE PRESSURE PERMISSIVE SWITCHES AT	157743 P 88
FITZPATRICK*	#SET POINT	DRIFT OF HIGH DRYWELL PRESSURE SWITCH FOUND AT QUAD CITIES	156964 P543
	#	DRIFTING LPRM CAUSES INDICATED HIGH THERMAL LIMIT AT	155418 P273
#CONTROL ROD BLOCK MONITOR SETPOINT		DRIFTS AT BRUNSWICK 1*	160467 P151
#DRYWELL OXYGEN MONITOR		DRIFTS AT DRESDEN 2*	155295 P209
#REACTOR HIGH PRESSURE SWITCH SETPOINT		DRIFTS AT HATCH 2*	159588 P328
#REFUEL FLOOR EXHAUST RAD MONITOR READING		DRIFTS AT PEACH BOTTOM 3*	160373 P495
#SET POINT		DRIFTS IN CORE SPRAY PUMP PRESSURE SWITCH AT HATCH 2*	160455 P397
AT BIG ROCK POINT* #SETPOINT		DRIFTS IN SENSOR CHANNEL OF REACTOR DEPRESSURIZING SYSTEM	158266 P 36
AT BIG ROCK POINT* #SETPOINT		DRIFTS IN SENSOR CHANNEL OF REACTOR DEPRESSURIZING SYSTEM	158267 P 36
AT BIG ROCK POINT* #SETPOINT		DRIFTS IN SENSORS CHANNEL OF REACTOR DEPRESSURIZING SYSTEM	158268 P 37
#CONTROL ROD		DRIFTS OUT AT BROWNS FERRY 2*	158725 P 68
#CONTROL ROD		DRIVE ACCUMULATOR LEVEL SWITCH FAILS AT BROWNS FERRY 1*	155296 P 49
#SET POINT DRIFT IN CONTROL ROD		DRIVE ACCUMULATOR PRESSURE INDICATORS AT HATCH 2*	158644 P378
HATCH 2* #CONTROL ROD		DRIVE ACCUMULATOR PRESSURE SWITCHES SET INCORRECTLY AT	157131 P361
HATCH 1* #CONTROL ROD		DRIVE ACCUMULATORS FAIL TO MAINTAIN NITROGEN PRESSURE AT	160269 P321
#CONTROL ROD UNCOUPLED FROM		DRIVE AT BROWNS FERRY 1*	163339 P 78
#CONTROL ROD		DRIVE FAILS TO WITHDRAW AT BRUNSWICK 2*	160047 P185
#UPDATE REPORT ON CONTROL ROD		DRIVE HOUSING LEAK AT BIG ROCK POINT*	153935 P 29
AT MONTICELLO* #CONTROL ROD		DRIVE HYDRAULIC PIPE SUPPORTS FAIL TO MEET STRESS LIMITS	156339 P433
#SOURCE RANGE MONITORS FAIL TO		DRIVE INTO CORE AT BRUNSWICK 2*	159633 P179
#CONTROL ROD		DRIVE PUMP VIBRATES EXCESSIVELY AT BIG ROCK POINT*	155473 P 34
DRESDEN 2* #TWO CONTROL ROD		DRIVE PUMPS INOPERABLE AT OYSTER CREEK*	162046 P488
AT DRESDEN 3* #CONTROL ROD		DRIVE SCRAM DISCHARGE PIPE SUPPORTS ARE NOT ADEQUATE AT	158092 P214
#CONTROL ROD		DRIVE SCRAM DISCHARGE PIPE SUPPORTS REQUIRE MODIFICATION	158706 P234

MILE POINT#	@CONTROL ROD	DRIVE SCRAM PILOT SOLENOIDS NOT TESTED ON TIME AT NINE	163384	P447
	@LEAK IN CONTROL ROD	DRIVE SYSTEM RETURN LINE AT BIG ROCK POINT#	161911	P 48
	@UPDATE REPORT ON CONTROL ROD	DRIVE TEMPERATURE AT BIG ROCK POINT#	163975	P 31
	@DIESEL	DRIVEN FIRE PUMP FAILS AT OYSTER CREEK#	162433	P473
	@DIESEL	DRIVEN FIRE PUMP FLOWRATE FALLS BELOW LIMIT AT PEACH	165362	P476
BOTTOM 2#	@DIESEL	DRIVEN FIRE PUMP OUT OF SERVICE TOO LONG AT DRESDEN 2#	160362	P217
	@PRESSURE	DROP ACROSS HEPA FILTER EXCEEDS LIMIT AT OYSTER CREEK 1#	160520	P466
	@DRYWELL TO TORUS DP	DROPPED BELOW LIMITS AT DRESDEN 2#	158267	P214
	@DIESEL GENERATOR LUBE OIL LEVEL	DROPS BELOW LIMIT AT ARNOLD#	153730	P 2
	@TORUS WATER LEVEL	DROPS BELOW LIMIT AT FITZPATRICK#	154066	P265
	@FIRE WATER STORAGE TANK LEVEL	DROPS BELOW LIMIT AT HATCH 1#	157090	P313
	@CAD STORAGE TANK LEVEL	DROPS BELOW LIMIT DURING INERTING AT BRUNSWICK 2#	156110	P178
	@RHR SERVICE WATER PUMP FLOW	DROPS SUDDENLY AT HATCH 2#	155433	P387
	#	DRYWELL AIR SAMPLING PUMP FAILS AT BROWNS FERRY 1#	157738	P 44
HATCH 1#	#	DRYWELL AND TORUS HYDROGEN OXYGEN RECORDER INOPERABLE AT	159290	P333
	@DRIFT IN	DRYWELL AND TORUS TEMPERATURE RECORDER AT HATCH 1#	160128	P335
	#	DRYWELL AND TORUS TEMPERATURE RECORDERS FAIL AT HATCH 1#	159271	P333
	@BOTH	DRYWELL ATMOSPHERE MONITORS INOPERABLE AT FITZPATRICK#	155306	P272
	@BOTH	DRYWELL ATMOSPHERE MONITORS OUT OF SERVICE AT FITZPATRICK#	154502	P264
	#	DRYWELL AVERAGE TEMPERATURE EXCEEDED THE 145 F LIMIT AT	159626	P386
HATCH 2#	#	DRYWELL CONTINUOUS AIR MONITOR FLOW LOW AT BROWNS FERRY 1#	153950	P 47
	#	DRYWELL CONTROL AIR VALVE FAILS TO CLOSE AT BROWNS FERRY 2#	160154	P 96
	#	DRYWELL DRAIN SUMP FLOW INSTRUMENT INOPERABLE AT COOPER#	159505	P252
FITZPATRICK#	#	DRYWELL DRAIN SUMP PUMP FLOW SENSORS OUT OF TOLERANCE AT	159575	P288
	#	DRYWELL EQUIPMENT DRAIN FLOW SENSORS FAIL AT BRUNSWICK 1#	160306	P135
CALIBRATION AT BRUNSWICK 1#	#	DRYWELL EQUIPMENT DRAIN LEAKAGE INTEGRATOR REQUIRES	163400	P203
MONTICELLO#	@LEAK RATE OF	DRYWELL EQUIPMENT DRAIN SUMP VALVE EXCEEDS LIMIT AT	156244	P432
	#	DRYWELL EQUIPMENT DRAIN VALVE FAILS TO CLOSE AT COOPER#	161994	P295
	#	DRYWELL EQUIPMENT HATCH DOOR LEAKS AT BROWNS FERRY 3#	153460	P101
	@UPDATE REPORT ON	DRYWELL EQUIPMENT HATCH LEAK AT BROWNS FERRY 3#	154990	P100
	#	DRYWELL EXHAUST SOLENOID COIL NOT QUALIFIED AT BROWNS	161892	P 76
FERRY 1#	#	DRYWELL FLOOR DRAIN FLOW INTEGRATOR FAILS AT BRUNSWICK 1#	160211	P148
	#	DRYWELL FLOOR SUMP PUMP FLOW INTEGRATOR INOPERABLE AT	160520	P530
PILGRIM 1#	#	DRYWELL GASEOUS RADIATION RECORDERS FAIL AT DUANE ARNOLD#	159203	P 13
	@SET POINT DRIFT IN	DRYWELL HIGH PRESSURE SWITCH AT BROWNS FERRY 3#	161598	P116
	@SET POINT DRIFT IN LPCI	DRYWELL HIGH PRESSURE SWITCH AT DRESDEN 2#	163379	P222
	@SET POINT DRIFT IN	DRYWELL HIGH PRESSURE SWITCH AT DUANE ARNOLD#	161990	P 23
	@SET POINT DRIFT IN	DRYWELL HIGH PRESSURE SWITCHES AT OYSTER CREEK#	160817	P469
	#	DRYWELL HYDROGEN MONITORS FAIL TO CALIBRATE AT BROWNS	160213	P 93
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1#	#	DRYWELL HYDROGEN SENSOR FAILS TO CALIBRATE AT BROWNS FERRY	161935	P121
3#	#	DRYWELL HYDROGEN-OXYGEN ANALYZER FAILS AT HATCH 2#	156057	P375
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#TOTAL CONTAINMENT LEAK RATE	EXCEEDS LIMIT AT BROWNS FERRY 1*	155532 P 55
#RIVER WATER TEMPERATURE RISE	EXCEEDS LIMIT AT BROWNS FERRY 1*	160156 P 73
#DIFFERENTIAL RIVER TEMPERATURE	EXCEEDS LIMIT AT BROWNS FERRY 1*	161754 P 78
#HPCI CHECK VALVE LEAK RATE	EXCEEDS LIMIT AT BROWNS FERRY 2*	160092 P 94
#DISCHARGE CHLORINE CONCENTRATION	EXCEEDS LIMIT AT BROWNS FERRY 2*	163470 P 97
#CONTAINMENT LEAK RATE	EXCEEDS LIMIT AT BROWNS FERRY 2*	161792 P 98
#RIVER TEMPERATURE	EXCEEDS LIMIT AT BROWNS FERRY*	158700 P 66
#REACTOR VESSEL CONDUCTIVITY	EXCEEDS LIMIT AT BRUNSWICK 1*	155311 P135
#REACTOR VESSEL CONDUCTIVITY	EXCEEDS LIMIT AT BRUNSWICK 1*	163465 P146
#REACTOR COOLANT CONDUCTIVITY	EXCEEDS LIMIT AT BRUNSWICK 1*	160403 P150
#MILK SAMPLE IODINE ACTIVITY	EXCEEDS LIMIT AT BRUNSWICK 1*	162480 P159
#GROSS BETA CONCENTRATION	EXCEEDS LIMIT AT BRUNSWICK 1*	162396 P159
#REACTOR COOLANT CONDUCTIVITY	EXCEEDS LIMIT AT BRUNSWICK 2*	153737 P164
#SUPPRESSION POOL LEVEL	EXCEEDS LIMIT AT BRUNSWICK 2*	160514 P190
#CONTROL ROD INSERTION TIME	EXCEEDS LIMIT AT BRUNSWICK 2*	160513 P190
#CONTAINMENT OXYGEN CONCENTRATION	EXCEEDS LIMIT AT BRUNSWICK 2*	160874 P191
#CONTAINMENT OXYGEN CONCENTRATION	EXCEEDS LIMIT AT BRUNSWICK 2*	160820 P193
#CONTAINMENT OXYGEN CONCENTRATION	EXCEEDS LIMIT AT BRUNSWICK 2*	161817 P199
#TORUS LEVEL	EXCEEDS LIMIT AT BRUNSWICK 2*	161813 P200
#DISCHARGE LIQUID EFFLUENT RADIATION LEVEL	EXCEEDS LIMIT AT DRESDEN 1*	156224 P205
#RADIOACTIVITY IN WASTE SAMPLE TANK	EXCEEDS LIMIT AT DRESDEN 2*	153495 P206
#WASTE SAMPLE TANK ACTIVITY	EXCEEDS LIMIT AT DRESDEN 2*	154927 P209
#FEEDWATER INBOARD CHECK VALVE LEAK RATE	EXCEEDS LIMIT AT DRESDEN 3*	155518 P227
#CONTAINMENT VENT LINE ISOLATION VALVE LEAKAGE	EXCEEDS LIMIT AT DRESDEN 3*	155521 P227
#FEEDWATER CHECK VALVE LEAK RATE	EXCEEDS LIMIT AT DRESDEN 3*	156159 P229
#TORUS WATER LEVEL	EXCEEDS LIMIT AT FITZPATRICK*	155550 P269
#CORE SPRAY PIPE BREAK DETECTOR SET POINT	EXCEEDS LIMIT AT FITZPATRICK*	155303 P270
#IODINE RELEASE RATE	EXCEEDS LIMIT AT FITZPATRICK*	158622 P279
#MILK SAMPLE IODINE ACTIVITY	EXCEEDS LIMIT AT FITZPATRICK*	163381 P296
#HEAD DEVELOPED BY PLANT SERVICE WATER PUMP	EXCEEDS LIMIT AT HATCH 1*	156100 P310
#CONTAINMENT OXYGEN CONCENTRATION	EXCEEDS LIMIT AT HATCH 1*	156187 P312
#CONTAINMENT OXYGEN CONCENTRATION	EXCEEDS LIMIT AT HATCH 1*	158598 P316
#REACTOR COOLANT CHLORIDE CONCENTRATION	EXCEEDS LIMIT AT HATCH 2*	156996 P362
#FEEDWATER ISOLATION VALVE LEAK RATE	EXCEEDS LIMIT AT HATCH 2*	156222 P364
#RADWASTE DISCHARGE ISOLATION VALVE LEAKAGE	EXCEEDS LIMIT AT HATCH 2*	1583.8 P366
#DRYWELL TEMPERATURE	EXCEEDS LIMIT AT HATCH 2*	158673 P381
#TORUS TEMPERATURE	EXCEEDS LIMIT AT HATCH 2*	159308 P392
#FEEDWATER ISOLATION VALVE LEAK RATE	EXCEEDS LIMIT AT HATCH 2*	161054 P403
#RCIC TURBINE EXHAUST ISOLATION VALVE LEAK RATE	EXCEEDS LIMIT AT HATCH 2*	161892 P404
#DRYWELL PNEUMATIC RETURN ISOLATION VALVE LEAK RATE	EXCEEDS LIMIT AT HATCH 2*	161880 P406
#CONTAINMENT ISOLATION VALVE LEAKAGE	EXCEEDS LIMIT AT HATCH 2*	162703 P407
#MAIN COOLANT ALPHA ACTIVITY	EXCEEDS LIMIT AT LA CROSSE*	160363 P414
#MAIN COOLANT ALPHA ACTIVITY	EXCEEDS LIMIT AT LA CROSSE*	160364 P415
#CONTAINMENT ISOLATION VALVE LEAK RATE	EXCEEDS LIMIT AT LACROSSE*	162016 P418
#LEAK RATE OF OUTBOARD MSIV	EXCEEDS LIMIT AT MONTICELLO*	156238 P428
#LEAK RATE OF HPCI TURBINE EXHAUST CHECK VALVE	EXCEEDS LIMIT AT MONTICELLO*	156239 P429
#LEAK RATE OF STANDBY LIQUID CONTROL VALVE	EXCEEDS LIMIT AT MONTICELLO*	156240 P429
#LEAK RATE OF TORUS VENT VALVE	EXCEEDS LIMIT AT MONTICELLO*	156241 P430
#LEAK RATE OF RCIC TURBINE EXHAUST CHECK VALVE	EXCEEDS LIMIT AT MONTICELLO*	156242 P431
#LEAK RATE OF TORUS INSTRUMENT AIR VALVE	EXCEEDS LIMIT AT MONTICELLO*	156243 P431
#LEAK RATE OF DRYWELL EQUIPMENT DRAIN SUMP VALVE	EXCEEDS LIMIT AT MONTICELLO*	156244 P432
#LEAK RATE OF INBOUND MSIV	EXCEEDS LIMIT AT MONTICELLO*	156245 P432
#AVERAGE PLANAR HEAT GENERATION RATE	EXCEEDS LIMIT AT NINE MILE POINT 1*	154448 P438
#INDICATED TEMPERATURE ACROSS CONDENSER	EXCEEDS LIMIT AT NINE MILE POINT 1*	154447 P439
#AVERAGE PLANAR LINEAR HEAT GENERATION RATE	EXCEEDS LIMIT AT NINE MILE POINT 1*	154445 P439
#LIQUID EFFLUENT DISCHARGE TEMPERATURE	EXCEEDS LIMIT AT NINE MILE POINT 1*	155298 P440
#CIRCULATING WATER DELTA TEMPERATURE	EXCEEDS LIMIT AT NINE MILE POINT 1*	158696 P442
#MILK SAMPLE IODINE ACTIVITY	EXCEEDS LIMIT AT NINE MILE POINT*	163383 P447
#PRESSURE DROP ACROSS HEPA FILTER	EXCEEDS LIMIT AT OYSTER CREEK 1*	160520 P460
#TORUS OXYGEN CONCENTRATION	EXCEEDS LIMIT AT OYSTER CREEK*	159327 P461
#RIVER WATER TEMPERATURE	EXCEEDS LIMIT AT OYSTER CREEK*	159137 P471
#DISCHARGE TEMPERATURE	EXCEEDS LIMIT AT OYSTER CREEK*	159520 P472
#WATER TEMPERATURE IN CREEK	EXCEEDS LIMIT AT OYSTER CREEK*	160357 P472
#ROD WITHDRAWAL BLOCK SETPOINT	EXCEEDS LIMIT AT PEACH BOTTOM 2*	155380 P476
#REACTOR COOLANT CONDUCTIVITY	EXCEEDS LIMIT AT PEACH BOTTOM 3*	155409 P490
#CONDENSER COOLING WATER TEMPERATURE RISE	EXCEEDS LIMIT AT PILGRIM 1*	155398 P502
#LEAKAGE OF TORUS TO RB VACUUM BREAKER	EXCEEDS LIMIT AT PILGRIM 1*	154689 P503
#REACTOR WATER CONDUCTIVITY	EXCEEDS LIMIT AT PILGRIM 1*	159277 P519
#CONDENSER TEMPERATURE GRADIENT	EXCEEDS LIMIT AT PILGRIM 1*	160523 P529
#CIRCULATING WATER DELTA T	EXCEEDS LIMIT AT PILGRIM 1*	161940 P534
#DRYWELL PURGE VALVE CLOSING TIME	EXCEEDS LIMIT AT QUAD CITIES 1*	153948 P538

#MSIV CLOSURE TIME	EXCEEDS LIMIT AT QUAD CITIES 1*	153491 P538
#SLC RELIEF VALVES UNTIL PRESSURE	EXCEEDS LIMIT AT QUAD CITIES 2*	154916 P581
#REACTOR COOLANT CONDUCTIVITY	EXCEEDS LIMIT AT QUAD CITIES 2*	158494 P585
#DISCHARGE BAY CHLORINE CONCENTRATION	EXCEEDS LIMIT AT QUAD CITIES*	159158 P550
#PRESSURE SWITCH SETPOINT	EXCEEDS LIMIT AT VERMONT YANKEE*	159525 P575
#CNPP	EXCEEDS LIMIT DURING STARTUP AT HATCH 2*	154741 P352
#DISCHARGE TEMPERATURE	EXCEEDS LIMIT 4 TIMES AT OYSTER CREEK*	160300 P472
#LEAK RATE OF OUTBOARD MSIV	EXCEEDS LIMITS AT MONTICELLO*	156237 P438
#CONTAINMENT OXYGEN CONCENTRATION	EXCEEDS LIMITS TWICE AT HATCH 1*	159627 P329
#FUEL EXPOSURE	EXCEEDS MAPLHGR LIMIT ANALYSIS EXPOSURES AT QUAD CITIES 1*	153946 P537
#RADIOACTIVITY RELEASE	EXCEEDS REPORT LIMIT AT FITZPATRICK*	156237 P275
#SR-90 CONCENTRATION IN MILK SAMPLE	EXCEEDS REPORT LIMIT AT PILGRIM 1*	154902 P504
#MUSSEL SAMPLE COBALT 60 CONCENTRATION	EXCEEDS REPORTABLE LIMIT AT PILGRIM 1*	158046 P514
#CO-60 LEVEL IN SEDIMENT SAMPLE	EXCEEDS REPORTING LEVEL AT FITZPATRICK*	154648 P263
#CORE SPRAY PUMP DISCHARGE SWITCH	EXCEEDS SETPOINT AT BROWNS FERRY 1*	158269 P 63
#OYSTER SAMPLE SILVER ACTIVITY	EXCEEDS TEN TIMES CONTROL ACTIVITY AT MILLSTONE*	161827 P426
*	# EXCESS FLOW CHECK VALVE MISSING INTERNALS AT BROWNS FERRY 2	161452 P 96
AT COOPER*	# EXCESSIVE EROSION NOTED IN SW PUMPS STRAINER BACKWASH LINE	153972 P240
#DIESEL GENERATOR MAKES	EXCESSIVE NOISE AT HATCH 2*	161853 P402
	# EXCESSIVE OXYGEN CONCENTRATION IN CONTAINMENT FOUND AT	159209 P438
MONTICELLO*	# EXCESSIVE PRIMARY CONTAINMENT LEAKAGE FOUND AT COOPER*	159542 P246
#EMERGENCY BUS RELAYS HAVE	EXCESSIVE TIME DELAY AT DUANE ARNOLD*	159645 P 10
#EMERGENCY BUS RELAYS HAVE	EXCESSIVE TIME DELAY AT DUANE ARNOLD*	160282 P 12
#CONTROL ROD DRIVE PUMP VIBRATES	EXCESSIVELY AT BIG ROCK POINT*	155473 P 34
#SERVICE WATER PUMP VIBRATES	EXCESSIVELY AT COOPER*	162824 P257
#CONTAINMENT ISOLATION VALVE LEAKS	EXCESSIVELY AT LACROSSE*	162014 P417
#RESTRICTION IN COOLING WATER LINE FOR RHR PUMP SEAL HEAT	EXCHANGER AT BROWNS FERRY 3*	157437 P108
RESTRICTION IN COOLING WATER LINE FOR DIESEL GENERATOR HEAT	EXCHANGER AT BROWNS FERRY 3*	# 157438 P108
#RHR HEAT	EXCHANGER INOPERABLE AT COOPER*	162523 P259
#RHR HEAT	EXCHANGER LEAKS AT BROWNS FERRY 1*	157168 P 63
#RHR HEAT	EXCHANGER LEAKS AT BROWNS FERRY 1*	158710 P 64
#RHR HEAT	EXCHANGER LEAKS AT BROWNS FERRY 2*	159398 P 92
#RHR HEAT	EXCHANGER LEAKS AT BROWNS FERRY 2*	160302 P 92
#DIESEL GENERATOR COOLING HEAT	EXCHANGER LEAKS AT DRESDEN 2*	155312 P210
#DG COOLING WATER HEAT	EXCHANGER LEAKS AT DRESDEN 2*	159532 P216
#LPCI HEAT	EXCHANGER LEAKS AT DRESDEN 3*	163348 P239
#LEAK IN REACTOR WATER CLEANUP HEAT	EXCHANGER LINE AT DRESDEN 3*	161882 P237
#RHR HEAT	EXCHANGER ON CROSSTIE LEAKS AT BROWNS FERRY 3*	159301 P115
#RHR HEAT	EXCHANGER RID PLATE BUCKLES AT BRUNSWICK 2*	160296 P174
#LPCI HEAT	EXCHANGER SW OUTLET VALVE BREAKER FOUND OPEN AT DRESDEN 3*	153944 P224
#LPCI HEAT	EXCHANGER TUBES LEAK AT DRESDEN 2*	160087 P218
#LPCI HEAT	EXCHANGER TUBES LEAK AT DRESDEN 3*	158705 P233
#CONTAINMENT SPRAY HEAT	EXCHANGER TUBES LEAK AT OYSTER CREEK*	155993 P453
#LEAK RATE OF HPCI TURBINE	EXHAUST CHECK VALVE EXCEEDS LIMIT AT MONTICELLO*	156239 P429
#LEAK RATE OF RCIC TURBINE	EXHAUST CHECK VALVE EXCEEDS LIMIT AT MONTICELLO*	156242 P431
#CONTAINMENT VENTILATION	EXHAUST FAN ISOLATION DAMPER LEAKS AT LA CROSSE*	158307 P413
#BOTH PLANT VENT	EXHAUST FANS OUT OF SERVICE AT BIG ROCK POINT*	153498 P 31
#RCIC TURBINE	EXHAUST ISOLATION VALVE LEAK RATE EXCEEDS LIMIT AT HATCH 2*	161852 P404
#MULTIPLE HPCI TURBINE	EXHAUST LINE SNUBBER FAILURES AT PILGRIM 1*	160187 P522
#HPCI	EXHAUST LINE SNUBBER INOPERABLE AT PILGRIM 1*	153488 P501
#SET POINT DRIFT IN RCIC	EXHAUST PRESSURE SWITCH AT BRUNSWICK 2*	155317 P173
#SET POINT DRIFT IN RCIC TURBINE	EXHAUST PRESSURE SWITCHES AT HATCH 1*	155326 P307
#SET POINT DRIFT IN HPCI	EXHAUST PRESSURE SWITCHES AT HATCH 2*	156130 P386
#CONTAINMENT SAMPLE	EXHAUST PUMP FAILS AT PEACH BOTTOM 3*	160489 P498
#REFUEL FLOOR	EXHAUST RAD MONITOR READING DRIFTS AT PEACH BOTTOM 3*	160373 P495
#DRYWELL	EXHAUST SOLENOID COIL NOT QUALIFIED AT BROWNS FERRY 1*	161892 P 76
#RB VENTILATION	EXHAUST SURVEILLANCE NOT PERFORMED AT FITZPATRICK*	160272 P283
#SUPPRESSION POOL	EXHAUST VALVE FAILS TO CLOSE AT BRUNSWICK 2*	160487 P185
#RCIC AND HPCI	EXHAUST VALVES CLOSED AT BRUNSWICK 2*	160388 P187
#REACTOR BUILDING	EXHAUST VENTILATION RADIATION MONITOR INOPERABLE AT	161977 P181
BRUNSWICK 2*	EXISTS AT VERMONT YANKEE*	155497 P370
#POTENTIAL FOR HIGH OR LOW VOLTAGE ON 4160 AND 480V SYSTEMS	EXPOSURE EXCEEDS MAPLHGR LIMIT ANALYSIS EXPOSURES AT QUAD	153946 P537
#FUEL	EXPOSURE OVERSIGHT AT MONTICELLO*	154648 P427
CITIES 1*	EXPOSURE TEST NOT PERFORMED ON TIME AT VERMONT YANKEE*	158190 P567
#UPDATE REPORT ON MAPLHGR	EXPOSURES AT QUAD CITIES 1*	153946 P537
#INTEGRATED GAMMA	EXTENDED AT BRUNSWICK 1*	159444 P139
#FUEL EXPOSURE EXCEEDS MAPLHGR LIMIT ANALYSIS	EXTENDED BY ADMINISTRATIVE DECISION AT BROWNS FERRY 2*	156029 P 84
#INSTRUMENT LINE SNUBBER FOUND OVER		
#SHUTDOWN		

#MAXIMUM TOTAL PEAKING	FACTOR CALCULATION INCORRECTLY AT BRUNSWICK 1*	159210 P148
#MILK SAMPLE CESIUM CONTENT EXCEEDS CONTROL BY	FACTOR OF TEN AT PILGRIM 1*	157023 P507
#MPCI PIPE SNUBBERS	FAIL AND PUMP CASING GASKET LEAKS AT PILGRIM 1*	159179 P518
#REACTOR WATER LEVEL SWITCHES	FAIL AT BROWNS FERRY 3*	158537 P107
#DRYWELL EQUIPMENT DRAIN FLOW SENSORS	FAIL AT BRUNSWICK 1*	160306 P135
#STARTUP RANGE MONITORS	FAIL AT BRUNSWICK 1*	159161 P138
#DIESEL GENERATOR SERVICE WATER SUPPLY VALVES	FAIL AT BRUNSWICK 1*	154993 P141
#CONTROL ROD POSITION INDICATORS	FAIL AT BRUNSWICK 1*	159197 P146
#CONTROL ROD POSITION INDICATORS	FAIL AT BRUNSWICK 1*	160108 P149
#INTERMEDIATE RANGE MONITORS	FAIL AT BRUNSWICK 2*	158603 P176
#CONTROL ROD POSITION INDICATIONS	FAIL AT BRUNSWICK 2*	160146 P182
#REACTOR WATER CLEANUP PIPE AND SNUBBER	FAIL AT DRESDEN 3*	156207 P230
#DRYWELL GASEOUS RADIATION RECORDERS	FAIL AT DUANE ARNOLD*	159203 P 13
#DRYWELL PARTICULATE RADIATION RECORDERS	FAIL AT DUANE ARNOLD*	159411 P 17
#RCIC TURBINE BEARINGS	FAIL AT DUANE ARNOLD*	159248 P 29
#JET PUMP DIFFERENTIAL PRESSURE INDICATORS	FAIL AT FITZPATRICK*	157060 P278

#MAIN STACK RADIATION MONITOR SAMPLE PUMPS	FAIL AT HATCH 1#		157122 P312
#DRYWELL AND TORUS TEMPERATURE RECORDERS	FAIL AT HATCH 1#		159271 P333
#ECCS SNUBBERS	FAIL AT HATCH 1#		160138 P338
#RHR SERVICE WATER PUMPS	FAIL AT HATCH 2#		158671 P301
#SCRAM DISCHARGE VOLUME HIGH LEVEL SWITCHES	FAIL AT HATCH 2#		159584 P391
#AUTOMATIC DEPRESSURIZATION VALVES	FAIL AT HATCH 2#		161863 P407
#TWO MAIN STEAM LINE SUPPORT WELDS	FAIL AT MILLSTONE 1#		161470 P424
#BACKUP AIR SUPPLIES TO CONTAINMENT VENTILATION VALVES	FAIL AT PEACH BOTTOM 3#		155501 P491
#BOTH MAIN CHIMNEY OFF GAS SAMPLE PUMPS	FAIL AT QUAD CITIES 1#		159331 P845
#RADIATION MONITORS	FAIL AT VERMONT YANKEE#		156989 P873
#CONTAINMENT RADIOACTIVE GAS SAMPLER ISOLATION VALVES	FAIL CLOSED AT PEACH BOTTON 2#		160073 P482
#CONTAINMENT ISOLATION VALVES	FAIL CLOSED AT PEACH BOTTON 2#		160927 P483
#CONTAINMENT ATMOSPHERIC MONITORS	FAIL DOWNSCALE AT BRUNSWICK 1#		154522 P124
#RHR SERVICE WATER PUMPS	FAIL FLOW TEST AT BRUNSWICK 2#		154877 P170
#HYDRAULIC SNUBBERS	FAIL TEST AT FITZPATRICK#		160204 P286
#FOUR FIRE DOORS	FAIL TEST AT HATCH 1#		160840 P341
#MAIN STEAM RELIEF VALVES	FAIL TO ACTUATE PROPERLY AT BROWNS FERRY 2#		160163 P 94
#TWO RHR DELAY TIMERS	FAIL TO ACTUATE THE TIMER CONTACTS AT QUAD CITIES 2#		156019 P584
#RETENTION BUILDING FIRE DETECTORS	FAIL TO ALARM AT PILGRIM 1#		159083 P516
#HPCI AND RCIC FIRE DETECTORS	FAIL TO ALARM AT PILGRIM 1#		159268 P520
#DRYWELL HYDROGEN MONITORS	FAIL TO CALIBRATE AT BROWNS FERRY 2#		160213 P 93
#THREE RWCU ISOLATION VALVES	FAIL TO CLOSE AT BROWNS FERRY 1#		156878 P 59
#COOLING TOWER TRANSFORMER FEEDER BREAKERS	FAIL TO CLOSE AT BROWNS FERRY 1#		161794 P 77
#CONTAINMENT ISOLATION VALVES	FAIL TO CLOSE AT DUANE ARNOLD#		161715 P 23
#TWO FIRE DOORS	FAIL TO CLOSE AT FITZPATRICK#		154851 P262
#CONTAINMENT ISOLATION VALVES	FAIL TO CLOSE AT HATCH 2#		156992 P362
#MAIN STEAM ISOLATION VALVES	FAIL TO CLOSE AT NINE MILE POINT 1#		160001 P441
#DIESEL GENERATOR PINION GEARS	FAIL TO DISENGAGE WHEN REQUIRED AT DRESDEN 2#		153494 P207
#SOURCE RANGE MONITORS	FAIL TO DRIVE INTO CORE AT BRUNSWICK 2#		159803 P179
#72 OF 185 CONTROL RODS	FAIL TO FULLY INSERT AT BROWNS FERRY 3#		158291 P111
#MAIN STEAM ISOLATION VALVES CLOSE TOO FAST AND	FAIL TO INDICATE CLOSED AT QUAD CITIES 2#		160835 P559
#CONTAINMENT VACUUM BREAKER LIGHTS	FAIL TO INDICATE OPEN AT HATCH 2.#		154619 P347
#CONTROL ROD DRIVE ACCUMULATORS	FAIL TO MAINTAIN NITROGEN PRESSURE AT HATCH 1#		160269 P321
#STATION BATTERY CHARGERS	FAIL TO MAINTAIN REQUIRED LOAD AT HATCH 2#		156121 P360
#EMERGENCY STATION BATTERIES	FAIL TO MAINTAIN THEIR LOADS AT HATCH 2#		156117 P359
#TWO MAIN STEAM ISOLATION VALVES	FAIL TO MEET LEAK RATE AT MILLSTONE 1#		160068 P423
#CONTROL ROD DRIVE HYDRAULIC PIPE SUPPORTS	FAIL TO MEET STRESS LIMITS AT MONTICELLO#		156339 P433
#SOURCE RANGE MONITORS	FAIL TO MOVE AND GIVE UNUSUAL INDICATION AT BRUNSWICK 2#		158655 P179
#CAC MONITOR ISOLATION VALVES	FAIL TO OPEN AT BRUNSWICK 2#		161595 P194
#TWO CAD SYSTEM VALVES	FAIL TO OPEN AT BRUNSWICK 2#		161653 P196
#TORUS VENT VALVES	FAIL TO OPEN AT DRESDEN 2#		158704 P215
#AUTOMATIC DEPRESSURIZATION VALVES	FAIL TO OPEN AT DRESDEN 3#		158231 P232
#MAIN STEAM ISOLATION SWITCHES	FAIL TO OPERATE AT BROWNS FERRY 2#		158235 P106
#CAD TANK FLOW CONTROL VALVES	FAIL TO OPERATE AT BRUNSWICK 2#		161655 P195
#SCRAM DISCHARGE VOLUME VENT AND DRAIN VALVES	FAIL TO OPERATE AT PEACH BOTTOM 2#		159644 P479
#LIQUID LEVEL SWITCHES	FAIL TO OPERATE PROPERLY AT BROWNS FERRY 2#		155204 P 81
#FOUR RIP VALVES	FAIL TO OPERATE PROPERLY AT BRUNSWICK 1#		154731 P123
#RHR SERVICE WATER PUMPS	FAIL TO PROVIDE SUFFICIENT FLOW AT FITZPATRICK#		160227 P286
#RHR SERVICE WATER PUMPS	FAIL TO START AT BRUNSWICK 2#		160466 P187
#CORE SPRAY PUMPS	FAIL TO START AT COOPER#		159565 P247
#REACTOR BLDG VENT RAD MONITOR SAMPLE PUMPS	FAIL TO START AT HATCH 1#		159248 P335
#MAIN STEAM LINE HIGH FLOW SENSORS	FAIL TO TRIP ON SETPOINT AT OYSTER CREEK#		163385 P478
#AIR TEMPERATURE RECORDER	FAILED AT BROWNS FERRY 1#		160906 P 74
#SECONDARY CONTAINMENT INTEGRITY CHECK	FAILED AT BRUNSWICK 1#		159164 P140
WATER TRAVELING SCREEN FAILS WHILE REDUNDANT SYSTEM IS	FAILED AT DUANE ARNOLD#	#RIVER	159051 P 14
#INDICATING VALVES ON THE FIRE PROTECTION SYSTEM	FAILED AT OYSER CREEK#		160263 P459
#REACTOR BUILDING VENT MONITOR	FAILED DOWNSCALE AT COOPER#		159299 P292
#TORUS VACUUM BREAKER VALVE	FAILED OPEN AT HATCH 2#		159629 P385
#LPCI INJECTION VALVE	FAILED TO OPEN AT PEACH BOTTON 3#		160140 P497
#REACTOR DEPRESSURIZING SYSTEM BATTERY CELL	FAILS AT BIG ROCK POINT#		154904 P 32
#REACTOR DEPRESSURIZING SYSTEM CHANNEL BATTERY	FAILS AT BIG ROCK POINT#		159088 P 37
#PRESSURE INDICATOR SWITCH	FAILS AT BIG ROCK POINT#		160291 P 38
#CONTROL ROD DRIVE ACCUMULATOR LEVEL SWITCH	FAILS AT BROWNS FERRY 1#		155296 P 49
#VENTILATION SYSTEM ISOLATION CHANNEL RELAYS	FAILS AT BROWNS FERRY 1#		154919 P 49
#ONE OFFSITE POWER LINE	FAILS AT BROWNS FERRY 1#		156026 P 54
#RADIATION MONITOR	FAILS AT BROWNS FERRY 1#		156946 P 58
#HALOGEN DETECTOR	FAILS AT BROWNS FERRY 1#		157167 P 60
#DRYWELL AIR SAMPLING PUMP	FAILS AT BROWNS FERRY 1#		157738 P 64
#SCRAM DISCHARGE VOLUME HIGH LEVEL SWITCH	FAILS AT BROWNS FERRY 1#		158293 P 68
#TURBINE BUILDING ROOF VENT MONITOR	FAILS AT BROWNS FERRY 1#		159405 P 69
#WIND DIRECTION INDICATOR	FAILS AT BROWNS FERRY 1#		160225 P 70
#REACTOR BUILDING VENTILATION MONITOR	FAILS AT BROWNS FERRY 1#		160157 P 72
#ONE OFFSITE POWER LINE	FAILS AT BROWNS FERRY 2#		156031 P 84
#AIR PARTICULATE CHANNEL RECORDER	FAILS AT BROWNS FERRY 2#		158632 P 87
#HPCI TURBINE RUPTURE DISC	FAILS AT BROWNS FERRY 2#		159340 P 91
#REFUELING ZONE INBOARD ISOLATION TIME DELAY RELAY	FAILS AT BROWNS FERRY 2#		161065 P 96
#DIESEL GENERATOR	FAILS AT BROWNS FERRY 3#		157009 P105
#RCIC SPEED FEEDBACK MAGNETIC PICKUP CONNECTOR	FAILS AT BROWNS FERRY 3#		160115 P114
#RHR PUMP AREA COOLER FAN THERMAL OVERLOAD RELAY	FAILS AT BROWNS FERRY 3#		159369 P115
#RTGB CONTROL SWITCH FOR HPCI TORUS SUCTION VALVE	FAILS AT BRUNSWICK 1#		155397 P132
#CONTROL ROD POSITION INDICATION	FAILS AT BRUNSWICK 1#		156175 P135
#ROD BLOCK MONITOR	FAILS AT BRUNSWICK 1#		155308 P136
#CONTROL ROD POSITION INDICATION	FAILS AT BRUNSWICK 1#		160304 P141
#CONTROL POWER TO DIESEL GENERATOR	FAILS AT BRUNSWICK 1#		156922 P142
#RHR FLOW INDICATOR ON REMOTE SHUTDOWN PANEL	FAILS AT BRUNSWICK 1#		158605 P144
#REACTOR WATER LEVEL SWITCH	FAILS AT BRUNSWICK 1#		158565 P144
#CONTROL ROD POSITION INDICATOR	FAILS AT BRUNSWICK 1#		158606 P144

@RB VENTILATION RADIATION MONITORING SYSTEM	FAILS AT BRUNSWICK 1@			199166 P145
@DRYWELL FLOOR DRAIN FLOW INTEGRATOR	FAILS AT BRUNSWICK 1@			160211 P148
@OXYGEN CHANNEL OF CONTAINMENT ATMOSPHERE RECORDER	FAILS AT BRUNSWICK 1@			160884 P153
@REMOTE SHUTDOWN PANEL RHR FLOW INDICATOR	FAILS AT BRUNSWICK 1@			163394 P153
@CONTROL ROD POSITION INDICATION	FAILS AT BRUNSWICK 1@			161687 P158
@CONTAINMENT OXYGEN MONITOR	FAILS AT BRUNSWICK 1@			160827 P158
@CONTAINMENT ATMOSPHERIC MONITOR	FAILS AT BRUNSWICK 1@			161811 P158
@SERVICE WATER HEADER ANTI-SIPHON PIPE SNUBBER	FAILS AT BRUNSWICK 1@			163391 P158
@SAFETY RELATED PIPE SNUBBER	FAILS AT BRUNSWICK 2@			159066 P177
@MAIN TURBINE CONTROL VALVE FAST CLOSURE RELAY	FAILS AT BRUNSWICK 2@			161078 P183
@RHR FLOW INSTRUMENTATION	FAILS AT BRUNSWICK 2@			160267 P185
@REACTOR WATER LEVEL INDICATION SWITCH	FAILS AT BRUNSWICK 2@			160048 P186
@CONTAINMENT ATMOSPHERIC MONITOR	FAILS AT BRUNSWICK 2@			160464 P188
@RHR SERVICE WATER PRESSURE ALARM	FAILS AT BRUNSWICK 2@			161456 P192
@SERVICE WATER PIPE SNUBBER	FAILS AT BRUNSWICK 2@			162724 P198
@CONTAINMENT ATMOSPHERIC MONITOR	FAILS AT BRUNSWICK 2@			161814 P199
@CONTAINMENT ATMOSPHERIC MONITOR	FAILS AT BRUNSWICK 2@			161816 P200
@CONTAINMENT ATMOSPHERIC MONITOR	FAILS AT BRUNSWICK 2@			162707 P202
@TRAVERSING INCORE PROBE POSITION INDICATION	FAILS AT BRUNSWICK 2@			162706 P202
@HPCI STOP VALVE STEM	FAILS AT COOPER@			158604 P262
@CONTROL POWER TO RHR VALVE	FAILS AT COOPER@			158880 P263
@DIESEL GENERATOR CYLINDER	FAILS AT COOPER@			159470 P252
@SUPPRESSION POOL COOLING INBOARD THROTTLE VALVE	FAILS AT COOPER@			159267 P253
@CONTAINMENT ISOLATION VALVE	FAILS AT COOPER@			160094 P254
@TORUS TO DRYWELL VACUUM BREAKER	FAILS AT DRESDEN 2@			158956 P211
@CONTROL ROD POSITION INDICATION	FAILS AT DRESDEN 2@			159467 P216
@SCRAM DISCHARGE VOLUME HIGH HIGH LEVEL ALARM	FAILS AT DRESDEN 2@			163371 P223
@ROD BLOCK MONITOR	FAILS AT DRESDEN 3@			163493 P223
@DRYWELL OXYGEN ANALYZER AUTOMATIC ADVANCE	FAILS AT DRESDEN 3@			158193 P225
@JET PUMP	FAILS AT DRESDEN 3@			158600 P226
@REACTOR RECIRCULATION PUMP SPEED CONTROLLER	FAILS AT DRESDEN 3@			160456 P236
@CONTROL ROD BLOCK MONITOR	FAILS AT DRESDEN 3@			160922 P237
@CONDENSATE STORAGE TANK LOW LEVEL SWITCH	FAILS AT DUANE ARNOLD@			160829 P 19
@RCIC STEAM SUPPLY VALVE LIMIT SWITCH	FAILS AT DUANE ARNOLD@			160856 P 19
@HPCI LEAK DETECTION TEMPERATURE DIFFERENTIAL SWITCH	FAILS AT DUANE ARNOLD@			160851 P 21
@STANDBY GAS TREATMENT SYSTEM	FAILS AT FITZPATRICK@			159581 P287
@RCIC TURBINE CONTROL	FAILS AT FITZPATRICK@			159382 P290
@OFF GAS RADIATION MONITOR	FAILS AT FITZPATRICK@			160104 P290
@DRYWELL SUMP PUMP	FAILS AT FITZPATRICK@			160880 P292
@HPCI STEAM SUPPLY VALVE MOTOR	FAILS AT FITZPATRICK@			162038 P293
@RCIC HIGH AMBIENT TEMPERATURE SWITCH	FAILS AT FITZPATRICK@			158636 P281
@REACTOR BUILDING VENT STACK RADIATION MONITOR	FAILS AT HATCH 1@			159588 P305
@CONTAINMENT HYDROGEN AND OXYGEN ANALYZER	FAILS AT HATCH 1@			156972 P311
@TORUS AIR AND WATER TEMPERATURE RECORDER	FAILS AT HATCH 1@			158897 P316
@DRYWELL/TORUS DIFFERENTIAL PRESSURE RECORDER	FAILS AT HATCH 1@			156995 P317
@DRYWELL VACUUM BREAKER POSITION INDICATOR	FAILS AT HATCH 1@			159486 P336
@ROD SEQUENCE CONTROL SYSTEM	FAILS AT HATCH 2@			158843 P351
@RCIC REMOTE SHUTDOWN FLOW CONTROL LOOP	FAILS AT HATCH 2@			154739 P352
@DRYWELL OXYGEN-HYDROGEN ANALYZER	FAILS AT HATCH 2@			156164 P355
@HYDRAULIC SNUBBER	FAILS AT HATCH 2@			158299 P364
@CONTAINMENT PURGE VACUUM BREAKER PRESSURE SWITCH	FAILS AT HATCH 2@			158726 P369
@RPS LOGIC FEEDER BREAKER	FAILS AT HATCH 2@			156936 P370
@TORUS VACUUM BREAKER	FAILS AT HATCH 2@			156933 P372
@TORUS TEMPERATURE RECORDER	FAILS AT HATCH 2@			156934 P373
@DRYWELL HYDROGEN-OXYGEN ANALYZER PUMP DIAPHRAGM	FAILS AT HATCH 2@			156858 P374
@DRYWELL HYDROGEN-OXYGEN ANALYZER	FAILS AT HATCH 2@			156857 P375
@REACTOR WATER LEVEL SWITCH	FAILS AT HATCH 2@			158674 P382
@REACTOR WATER LEVEL SWITCH	FAILS AT HATCH 2@			158678 P382
@MSL LEAKAGE CONTROL FLOW INDICATOR	FAILS AT HATCH 2@			159803 P388
@DIESEL GENERATOR	FAILS AT HATCH 2@			161861 P406
DISCHARGE VOLUME HIGH LEVEL ROD WITHDRAWAL BLOCK SWITCH	FAILS AT HATCH 2@	@SCRAM		159159 P390
@CONTAINMENT AIR LOCK DOOR INTERLOCK	FAILS AT LACROSSE@			161888 P415
@RECIR LOOP SAMPLE ISOLATION VALVE	FAILS AT MONTICELLO@			160374 P436
@HPCI STEAM SUPPLY ISOLATION VALVE	FAILS AT MONTICELLO@			159422 P436
@CONTAINMENT SPRAY ISOLATION VALVE	FAILS AT NINE MILE POINT 1@			159697 P441
@AVERAGE POWER RANGE MONITOR	FAILS AT NINE MILE POINT 1@			160862 P446
@REACTOR BUILDING TO SUPPRESSION CHAMBER VACUUM BREAKER	FAILS AT OYSTER CREEK@			153938 P449
@STANDBY GAS TREATMENT UNIT	FAILS AT OYSTER CREEK@			155994 P454
@REACTOR BUILDING AUTOMATIC ISOLATION VALVE	FAILS AT OYSTER CREEK@			157006 P455
@DIESEL DRIVEN FIRE PUMP	FAILS AT OYSTER CREEK@			162433 P473
@RHR PUMP MOTOR	FAILS AT PEACH BOTTOM 2@			158287 P467
@MAIN STEAM LINE RADIATION MONITOR	FAILS AT PEACH BOTTOM 3@			154729 P489
@RCIC AUTOMATIC FLOW CONTROLLER	FAILS AT PEACH BOTTOM 3@			155998 P491
@CONTAINMENT SAMPLE EXHAUST PUMP	FAILS AT PEACH BOTTOM 3@			160489 P498
@HPCI FLOW CONTROLLER	FAILS AT PEACH BOTTOM 3@			161772 P499
@SWITCHYARD 125 VOLT DC BATTERY CHARGER	FAILS AT PILGRIM 1@			153466 P500
@RHR SYSTEM SNUBBER	FAILS AT PILGRIM 1@			158210 P504
@DIESEL GENERATOR FIRE PROTECTION SYSTEM	FAILS AT PILGRIM 1@			157021 P800
@AUTOMATIC DEPRESSURIZATION SYSTEM RELIEF VALVE	FAILS AT PILGRIM 1@			158834 P814
@REACTOR PROTECTION SYSTEM FUNCTION	FAILS AT PILGRIM 1@			159383 P817
@125V DC CONTROL BATTERY CHARGER	FAILS AT PILGRIM 1@			160239 P823
@REACTOR COOLANT LEAK DETECTION AIR SAMPLING SYSTEM	FAILS AT PILGRIM 1@			160252 P826
@TORUS WATER LEVEL INDICATOR	FAILS AT PILGRIM 1@			161937 P835
@SUPPRESSION CHAMBER COOLING VALVE	FAILS AT QUAD-CITIES 1@			157000 P542
@RHR PUMP TIMER RELAY	FAILS AT QUAD-CITIES 2@			158988 P553
@SAFETY CLASS PIPE SNUBBER	FAILS AT VERMONT YANKEE@			158509 P564
@HPCI CONTROL POWER	FAILS AT VERMONT YANKEE@			160337 P570

@ENVIRONMENTAL AIR SAMPLER	FAILS AT VERMONT YANKEE@	160093	P580
@EMERGENCY EQUIPMENT COOLING WATER VALVE	FAILS CLOSED AT BROWNS FERRY 3@	161821	P120
@CONTAINMENT VACUUM BREAKER VALVE	FAILS CLOSED AT HATCH 2@	158445	P384
@REACTOR BUILDING VENTILATION SYSTEM ISOLATION VALVE	FAILS CLOSED AT QUAD CITIES 2@	155490	P552
@HPCI GOVERNOR VALVE	FAILS CLOSED AT VERMONT YANKEE@	155590	P568
@CONTAINMENT PRESSURE RECORDER	FAILS DOWNSCALE AT ARNOLD@	154507	P 1
@STEAM LINE RADIATION MONITOR	FAILS DOWNSCALE AT BROWNS FERRY 2@	155488	P 83
@CONTAINMENT ATMOSPHERIC MONITOR	FAILS DOWNSCALE AT BRUNSWICK 1@	154518	P125
@CONTAINMENT ATMOSPHERE RECORDER	FAILS DOWNSCALE AT BRUNSWICK 1@	160367	P136
@HPCI HIGH STEAM FLOW INSTRUMENT	FAILS DOWNSCALE AT COOPER@	154051	P241
@DRYWELL OXYGEN CONCENTRATION INDICATOR	FAILS DOWNSCALE AT DRESDEN 2@	159531	P215
@MAIN STEAM LINE DRAIN VALVE	FAILS IN MID POSITION AT HATCH 1@	154667	P301
@VACUUM BREAKER VALVE INDICATING LIGHT	FAILS OFF AT HATCH 1@	160767	P322
@NEUTRALIZER TANK DISCHARGE VALVE	FAILS OPEN AT FITZPATRICK@	154769	P265
@GENERATOR LOAD REJECTION SENSOR PRESSURE SWITCH	FAILS OPEN AT OYSTER CREEK@	157162	P456
@STANDBY LIQUID CONTROL PUMP	FAILS OPERABILITY TEST AT HATCH 2@	156937	P368
@REACTOR LOW WATER LEVEL	FAILS TC ACTUATE AT BRUNSWICK 1@	160534	P155
@TORUS WATER LEVEL SWITCH	FAILS TC ACTUATE AT BRUNSWICK 2@	155572	P167
@AUTOMATIC DEPRESSURIZATION SYSTEM VALVE	FAILS TC ACTUATE AT BRUNSWICK 2@	160866	P189
@HYDROGEN MONITOR	FAILS TC CALIBRATE AT BROWNS FERRY 3@	160330	P116
@DRYWELL HYDROGEN SENSOR	FAILS TC CALIBRATE AT BROWNS FERRY 3@	161935	P121
@RHR ALARM	FAILS TC CLEAR AT DUANE ARNOLD@	160825	P 22
@MAIN STEAM ISOLATION VALVE	FAILS TC CLOSE AT BIG ROCK POINT@	161674	P 42
@SHUTDOWN BOARD ALTERNATE FEED BREAKER	FAILS TC CLOSE AT BROWNS FERRY 1@	155524	P 53
@RHR INJECTION VALVE	FAILS TC CLOSE AT BROWNS FERRY 1@	156014	P 56
@DRYWELL SAMPLE ISOLATION VALVE	FAILS TC CLOSE AT BROWNS FERRY 1@	158631	P 62
@MODULATING DAMPER	FAILS TC CLOSE AT BROWNS FERRY 1@	160214	P 71
@DRYWELL CONTROL AIR VALVE	FAILS TC CLOSE AT BROWNS FERRY 2@	160154	P 94
@REACTOR WATER CLEAN-UP ISOLATION VALVE	FAILS TC CLOSE AT BROWNS FERRY 2@	156965	P106
@RCIC MINIMUM FLOW BYPASS VALVE	FAILS TC CLOSE AT BROWNS FERRY 3@	159416	P112
@REACTOR SCRAMS WHEN BREAKER	FAILS TC CLOSE AT BROWNS FERRY 3@	160152	P117
@CONTAINMENT ATMOSPHERE MONITOR LINE VALVE	FAILS TC CLOSE AT BRUNSWICK 1@	156229	P129
@SUPPRESSION POOL EXHAUST VALVE	FAILS TC CLOSE AT BRUNSWICK 2@	160487	P185
@CONTAINMENT PURGE VALVE	FAILS TC CLOSE AT COOPER@	155582	P243
@DRYWELL EQUIPMENT DRAIN VALVE	FAILS TC CLOSE AT COOPER@	161594	P255
@RHR SERVICE WATER VALVE	FAILS TC CLOSE AT COOPER@	161844	P256
@4160 VOLT BREAKER	FAILS TC CLOSE AT COOPER@	161593	P257
@LPCI VALVE	FAILS TC CLOSE AT DRESDEN 3@	155294	P225
@CONTROL BUILDING ISOLATION DAMPER	FAILS TC CLOSE AT DUANE ARNOLD@	160457	P 18
@HPCI PUMP MINIMUM FLOW VALVE	FAILS TC CLOSE AT FITZPATRICK@	158301	P276
@RHR CONTAINMENT ISOLATION VALVE	FAILS TC CLOSE AT FITZPATRICK@	158610	P277
@CONTAINMENT ISOLATION VALVE	FAILS TC CLOSE AT FITZPATRICK@	160917	P293
@FIRE DOOR	FAILS TC CLOSE AT HATCH 1@	160486	P340
@HPCI MINIMUM FLOW VALVE	FAILS TC CLOSE AT HATCH 1@	160868	P340
@HPCI MINIMUM FLOW VALVE	FAILS TC CLOSE AT HATCH 2@	154744	P351
@PLANT SERVICE WATER ISOLATION VALVE	FAILS TC CLOSE AT HATCH 2@	156108	P358
@RCIC STEAM SUPPLY LINE ISOLATION VALVE	FAILS TC CLOSE AT HATCH 2@	158643	P370
@HPCI ISOLATION VALVE	FAILS TC CLOSE AT HATCH 2@	158656	P379
@MAIN STEAM ISOLATION VALVE	FAILS TC CLOSE AT HATCH 2@	158245	P380
@RCIC OUTBOARD ISOLATION VALVE	FAILS TC CLOSE AT HATCH 2@	159319	P394
@DRYWELL SUMP ISOLATION VALVE	FAILS TC CLOSE AT MONTICELLO@	161895	P438
@RCIC STEAM SUPPLY VALVE	FAILS TC CLOSE AT PEACH BOTTOM 2@	160122	P480
@MAIN STEAM SAMPLE LINE ISOLATION VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	154597	P488
@FEEDWATER FLUSH ISOLATION VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	153476	P489
@CONTAINMENT SPRAY OUTBOARD ISOLATION VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	159095	P494
@CONTAINMENT ISOLATION VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	160137	P495
@CONTAINMENT ISOLATION VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	159458	P496
@CONTAINMENT VENTILATION ISOLATION VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	159440	P497
@MPCI VALVE	FAILS TC CLOSE AT PEACH BOTTOM 3@	161755	P500
@RCIC ISOLATION VALVE	FAILS TC CLOSE AT PILGRIM 1@	159365	P515
@RCIC OUTBOARD ISOLATION VALVE	FAILS TC CLOSE AT PILGRIM 1@	159536	P519
@MAIN STEAM LINE DRAIN ISOLATION VALVE	FAILS TC CLOSE AT PILGRIM 1@	159260	P520
@NITROGEN PURGE SUPPLY ISOLATION VALVE	FAILS TC CLOSE AT PILGRIM 1@	160212	P526
@CONTAINMENT ISOLATION VALVE	FAILS TC CLOSE AT PILGRIM 1@	160553	P532
@MAIN STEAM ISOLATION VALVE	FAILS TC CLOSE AT QUAD CITIES 1@	158708	P544
@ELECTROMATIC RELIEF VALVE	FAILS TC CLOSE AT QUAD CITIES 1@	160452	P546
@CONTAINMENT OXYGEN ANALYZER VALVE	FAILS TC CLOSE AT QUAD CITIES 2@	153487	P550
@RHR SERVICE WATER VAULT BED PLATE DRAIN VALVE	FAILS TC CLOSE AT QUAD CITIES 2@	153951	P551
@SUPPRESSION POOL COOLING VALVE	FAILS TC CLOSE AT QUAD CITIES 2@	158495	P556
@MSIV	FAILS TO CLOSE AT QUAD-CITIES 1@	156024	P540
@CONTAINMENT ISOLATION NITROGEN VALVE	FAILS TC CLOSE AT QUAD-CITIES 2@	159688	P558
@CONTAINMENT MONITORING ISOLATION VALVE	FAILS TC CLOSE AT VERMONT YANKEE@	156889	P572
@CONTAINMENT SUMP ISOLATION VALVE	FAILS TC CLOSE AT VERMONT YANKEE@	158722	P573
@MAIN STEAM ISOLATION VALVE	FAILS TC CLOSE IN TIME AT COOPER@	161531	P260
@REACTOR WATER CLEANUP SYSTEM ISOLATION VALVE	FAILS TC CLOSE IN TIME AT DUANE ARNOLD@	160835	P 20
@NITROGEN PURGE ISOLATION VALVE	FAILS TC CLOSE IN TIME AT PILGRIM 1@	158840	P515
@PRIMARY VENT VALVE	FAILS TC CLOSE IN TIME AT QUAD-CITIES 2@	161930	P562
@MSIV	FAILS TC CLOSE WITHIN TIME LIMIT AT MONTICELLO@	160209	P436
@ROD SEQUENCE CONTROL SYSTEM	FAILS TC COME INTO SERVICE WHEN REQUIRED AT FITZPATRICK@	155525	P271
@RPS LOGIC RELAY	FAILS TC DEENERGIZE FOLLOWING MSIV CLOSURE AT BRUNSWICK 1@	160864	P154
@MSIV LIMIT SWITCH	FAILS TO DEENERGIZE SCRAM CHANNEL RELAY AT BROWNS FERRY 2@	159162	P 89
@SCRAM DISCHARGE VOLUME	FAILS TO DRAIN AND ALARM CLEAR AT DRESDEN 3@	158229	P235
@MSIV	FAILS TC FULLY OPEN AT VERMONT YANKEE@	153481	P565
@TORUS LEVEL INSTRUMENT	FAILS TC FUNCTION PROPERLY AT BRUNSWICK 1@	154516	P126
@ECCS LOGIC RELAY	FAILS TC FUNCTION PROPERLY AT PEACH BOTTOM 2@	160333	P481
@TORUS TO DRYWELL VACUUM BREAKER	FAILS TC GIVE OPEN INDICATION AT DRESDEN 2@	160266	P214
@APRM CHANNEL	FAILS TC GO INOPERABLE WITH LESS THAN 11 LPRM INPUTS AT	155299	P393

HATCH 2@

	@REACTOR DEPRESSURIZING BATTERY	FAILS TO HOLD CHARGE AT BIG ROCK POINT*	160878	P 40
	@TORUS WATER LEVEL SENSOR	FAILS TO INDICATE ACTUAL LEVEL AT FITZPATRICK*	160104	P286
	@CONTAINMENT ISOLATION VALVE	FAILS TO INDICATE POSITION AT BRUNSWICK 2*	161694	P196
	@APRM	FAILS TO INITIATE ROD BLOCK AT DRESDEN 3*	159533	P235
	@HPCI	FAILS TO INJECT FOLLOWING SCRAM AT HATCH 1*	163478	P328
	@RCIC	FAILS TO INJECT INTO REACTOR VESSEL AT HATCH 1*	158685	P327
	@CONTROL ROD	FAILS TO INSERT AT BROWNS* FERRY 3*	156896	P103
	@HPCI	FAILS TO ISOLATE AT HATCH 2*	159307	P391
	@CONTROL ROD POSITION INDICATOR LIGHT	FAILS TO LIGHT AT BRUNSWICK 1*	156712	P128
	@HYDRAULIC SNUBBER	FAILS TO LOCK AT OYSTER CREEK*	160235	P461
	@SNUBBER	FAILS TO LOCK IN COMPRESSION DIRECTION AT CYSTER CREEK*	160295	P459
	@CORE SPRAY SNUBBER	FAILS TO LOCK UP AT OYSTER CREEK*	160433	P464
	@SHOCK SUPPRESSOR	FAILS TO LOCK UP AT VERMONT YANKEE*	160897	P877
	@HPCI	FAILS TO MEET FLOW REQUIREMENT DUE TO TRIP AT BROWNS FERRY	158272	P 63
1*	@STANDBY GAS TREATMENT FAN	FAILS TO MEET FLOW REQUIREMENTS AT HATCH 1*	153740	P300
	@RHR SERVICE WATER PUMP	FAILS TO MEET REQUIREMENTS AT MONTICELLO*	156879	P434
	@RHR SYSTEM	FAILS TO MEET SAFE SHUTDOWN EARTHQUAKE CRITERIA AT PILGRIM	160490	P827
1*	@ONE PIPING RESTRAINT	FAILS TO MEET SEISMIC CRITERIA AT BROWNS FERRY 1*	155367	P 83
	@STANDBY LIQUID CONTROL RELIEF VALVE	FAILS TO OPEN AT BRUNSWICK 1*	159199	P147
	@RCIC INJECTION VALVE	FAILS TO OPEN AT BRUNSWICK 2*	160525	P187
	@HPCI TURBINE CONTROL VALVE	FAILS TO OPEN AT BRUNSWICK 2*	160082	P188
	@SERVICE WATER VALVE	FAILS TO OPEN AT COOPER.*	162522	P258
	@FIRE HYDRANT	FAILS TO OPEN AT COOPER*	159246	P253
	@WASTE LINE VALVE OPERATOR	FAILS TO OPEN AT COOPER*	162519	P259
	@HPCI STEAM SUPPLY VALVE	FAILS TO OPEN AT DRESDEN 2*	160546	P228
	@LPCI INJECTION VALVE	FAILS TO OPEN AT DRESDEN 3*	156007	P228
	@HPCI STEAM SUPPLY VALVE	FAILS TO OPEN AT DRESDEN 3*	160903	P238
	@RCIC TURBINE TRIP AND THROTTLE VALVE	FAILS TO OPEN AT DUANE ARNOLD*	159059	P 15
	@RCIC STEAM SUPPLY LINE VALVE	FAILS TO OPEN AT DUANE ARNOLD*	160801	P 21
	@CORE SPRAY VALVE	FAILS TO OPEN AT FITZPATRICK*	153729	P266
	@CORE SPRAY VALVE	FAILS TO OPEN AT FITZPATRICK*	154660	P267
	@RHR SYSTEM DISCHARGE TO RADWASTE VALVE	FAILS TO OPEN AT FITZPATRICK*	158300	P276
	@CONTAINMENT SPRAY VALVE	FAILS TO OPEN AT HATCH 1*	156991	P315
	@SHUTDOWN COOLING SUCTION VALVE	FAILS TO OPEN AT HATCH 1*	158754	P321
	@RHR INBOARD INJECTION VALVE	FAILS TO OPEN AT HATCH 1*	159314	P335
	@TORUS-DRYWELL VACUUM BREAKER	FAILS TO OPEN AT HATCH 2*	156143	P358
	@MSIV LEAKAGE CONTROL SYSTEM RELAY	FAILS TO OPEN AT HATCH 2*	156063	P378
	@HPCI INJECTION VALVE	FAILS TO OPEN AT HATCH 2*	159157	P387
	@HPCI SUPPRESSION CHAMBER SUCTION VALVE	FAILS TO OPEN AT HATCH 2*	159317	P398
	@TORUS/DRYWELL VACUUM BREAKER	FAILS TO OPEN AT HATCH 2*	160476	P396
	@ELECTROMAGNETIC RELIEF VALVE	FAILS TO OPEN AT NINE MILE POINT 1*	159511	P463
	@ELECTROMATIC RELIEF VALVE	FAILS TO OPEN AT OYSTER CREEK*	154490	P449
	@STANDBY GAS TREATMENT FILTER ASSEMBLY ISOLATION VALVE	FAILS TO OPEN AT PEACH BOTTOM 2*	161071	P483
	@LPCI INJECTION VALVE	FAILS TO OPEN AT PEACH BOTTOM 3*	156416	P490
	@LPCI INJECTION VALVE	FAILS TO OPEN AT PEACH BOTTOM 3*	156989	P493
	@CORE SPRAY PUMP FAILS TO START AND VALVE	FAILS TO OPEN AT PILGRIM 1*	158613	P808
	@RELIEF VALVE	FAILS TO OPEN AT PILGRIM 1*	159499	P820
	@CORE SPRAY VALVE	FAILS TO OPEN AT PILGRIM 1*	160251	P825
	@TARGET ROCK SAFETY RELIEF VALVE	FAILS TO OPEN AT QUAD CITIES 1*	158791	P844
	@CORE SPRAY VALVE	FAILS TO OPEN AT QUAD CITIES 2*	160067	P859
	@RCIC PUMP DISCHARGE VALVE	FAILS TO OPEN AT QUAD CITIES 2*	161455	P860
	@PRESSURE RELIEF VALVE	FAILS TO OPEN AT QUAD-CITIES 2*	156042	P855
	@RHR CONTAINMENT COOLING VALVE	FAILS TO OPEN AT QUAD-CITIES 2*	160878	P860
	@ELECTROMAGNETIC RELIEF VALVE	FAILS TO OPEN AT QUAD-CITIES 2*	163336	P844
	@HPCI STOP VALVE	FAILS TO OPEN COMPLETELY AT BROWNS FERRY 1*	156211	P 96
	@LPCI VALVE	FAILS TO OPEN FULLY AT QUAD-CITIES 2*	160567	P859
	@RECIRCULATION PUMP DISCHARGE VALVE	FAILS TO OPEN FULLY AT VERMONT YANKEE*	157039	P871
	@CRD SCRAM ACCUMULATOR LEVEL SWITCH	FAILS TO OPERATE AT BROWNS FERRY 1*	155208	P 52
	@HPCI VALVE	FAILS TO OPERATE AT BROWNS FERRY 1*	160179	P 67
	@RHR TORUS RETURN VALVE	FAILS TO OPERATE AT BROWNS FERRY 1*	160185	P 72
	@DRYWELL TO TORUS DIFFERENTIAL PRESSURE INDICATOR	FAILS TO OPERATE AT BROWNS FERRY 2*	154639	P 79
	@REACTOR WATER LEVEL SWITCH	FAILS TO OPERATE AT BROWNS FERRY 2*	154638	P 80
	@RECIRC SYSTEM FLOW CONTROL VALVE	FAILS TO OPERATE AT BROWNS FERRY 2*	154637	P 80
	@CORE SPRAY DISCHARGE SWITCH	FAILS TO OPERATE AT BROWNS FERRY 2*	160285	P 90
	@LEVEL INDICATING SWITCH	FAILS TO OPERATE AT BROWNS FERRY 3*	157715	P107
	@INBOARD THROTTLE ISOLATION VALVE	FAILS TO OPERATE AT COOPER*	159465	P280
	@HPCI VALVE	FAILS TO OPERATE AT DRESDEN 2*	157698	P212
	@HPCI VALVE	FAILS TO OPERATE AT DRESDEN 2*	157686	P213
	@HYDROGEN RECOMBINER SYSTEM	FAILS TO OPERATE AT HATCH 2*	157161	P377
	@RBM BLOCK MONITOR	FAILS TO OPERATE AT HATCH 2*	159894	P384
	@REACTOR LO LO LO LEVEL SWITCH	FAILS TO OPERATE PROPERLY AT FITZPATRICK*	155293	P269
	@REACTOR LOW-LOW WATER LEVEL SWITCH	FAILS TO OPERATE PROPERLY AT QUAD CITIES 1*	155369	P840
	@CONTAINMENT TEMPERATURE RECORDER	FAILS TO PRINT AT HATCH 1*	158688	P328
	@RCIC SYSTEM CONDENSATE PUMP	FAILS TO PUMP PROPERLY AT ARNOLD*	155310	P 4
	@DIESEL GENERATOR	FAILS TO REACH OUTPUT VOLTAGE AT BIG ROCK POINT*	161980	P 43
	@RCIC	FAILS TO REACH RATED FLOW AT BROWNS FERRY 3*	153659	P101
	@RCIC	FAILS TO REACH RATED FLOW AT BROWNS FERRY 3*	153658	P101
	@HPCI TURBINE	FAILS TO REACH RATED SPEED AT VERMONT YANKEE*	156191	P870
	@DIESEL GENERATOR	FAILS TO REACH RATED VOLTAGE AT HATCH 2*	155313	P350
	@CORE SPRAY VALVE	FAILS TO REOPEN DURING TEST AT FITZPATRICK*	154650	P262
	@STANDBY GAS TREATMENT TRAIN	FAILS TO RESET AT BRUNSWICK 1*	156176	P136
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#FEEDWATER	FLUSH ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3•	155382 P476
#RECORD OF 1979 FIRE PROTECTION SYSTEM	FLUSH LOST AT DRESDEN 2•	157706 P 62
#ROD BLOCK AND HIGH	FLUX SCRAM CALIBRATIONS ARE NONCONSERVATIVE AT PILGRIM 1•	156962 P562
#DIESEL GENERATOR FAILS TO START	FOLLOWING LOSS OF SHUTDOWN BOARD AT BROWNS FERRY 1•	153476 P489
#RPS LOGIC RELAY FAILS TO DEENERGIZE	FOLLOWING NSIV CLOSURE AT BRUNSWICK 1•	160461 P219
#FEEDER BREAKER NOT RECLOSED	FOLLOWING RESTORATION OF OFFSITE POWER AT BROWNS FERRY 3•	159385 P517
#HPCI FAILS TO INJECT	FOLLOWING SCRAM AT HATCH 1•	158727 P 66
#DIESEL FIRE PUMP BOILS OVER	FOLLOWING SHUTDOWN AT FITZPATRICK•	160864 P154
#RCIC FLOW CONTROLLER LEFT IN MANUAL	FOLLOWING TEST AT QUAD CITIES 1•	156072 P109
		163478 P325
		153727 P267
		159413 P545

#RCIC STEAM SUPPLY VALVES LEFT CLOSED	FOLLOWING TEST AT QUAD-CITIES 1*	156025	P340
#VACUUM BREAKER FAILURES	FORCE SHUTDOWN AT HATCH 2*	160100	P389
#DEGRADED FIRE BARRIERS	FOUND AND FIRE WATCH NOT ESTABLISHED AT OYSTER CREEK*	156250	P457
#EXCESSIVE PRIMARY CONTAINMENT LEAKAGE	FOUND AT COOPER*	159542	P246
#LOW DIESEL GENERATOR GOVERNOR HYDRAULIC OIL LEVEL	FOUND AT DUANE ARNOLD*	156016	P 9
#NON-QUALIFIED MSIC LIMIT SWITCH	FOUND AT HATCH 2*	156961	P371
#EXCESSIVE OXYGEN CONCENTRATION IN CONTAINMENT	FOUND AT MONTICELLO*	159209	P435
#SET POINT DRIFT OF HIGH DRYWELL PRESSURE SWITCH	FOUND AT QUAD CITIES 1*	156964	P343
#MANUAL VALVE ON HPCI SUPPRESSION POOL SUCTION LINE	FOUND CLOSED AT BRUNSWICK 1*	158819	P132
#ISOLATION VALVE FOR DRYWELL PRESSURE SWITCH	FOUND CLOSED AT BRUNSWICK 2*	153736	P164
#RIP VALVES FOR CONTAINMENT AIR MONITORS	FOUND CLOSED AT BRUNSWICK 2*	155531	P171
#RHR SERVICE WATER PUMP BEARING COOLING WATER VALVES	FOUND CLOSED AT HATCH 1*	158611	P316
#DIESEL GENERATOR CARDOX SYSTEM VAPOR PILOT VALVE	FOUND CLOSED AT PEACH BOTTOM 2*	159194	P478
#SEVEN CONTAINMENT ISOLATION VALVES	FOUND CLOSED AT PEACH BOTTOM 3*	160504	P459
#DIFFERENTIAL PRESSURE TRANSMITTER VALVE	FOUND CLOSED AT QUAD CITIES 1*	154443	P538
#HANGER	FOUND DAMAGED AND INOPERABLE AT VERMONT YANKEE*	153482	P864
#BOLTS ON PENETRATION BASE PLATE	FOUND FAULTY AT MILLSTONE 1*	159128	P422
#ERROR	FOUND IN CALCULATED SAFETY VALVE PRESSURE MARGIN AT NINE MILE POINT*	161798	P447
#LOW LEVEL	FOUND IN CONTAINMENT ATMOSPHERE DILUTION TANK AT BRUNSWICK 1*	156928	P139
#FLAW	FOUND IN CORE SPRAY PIPE WELD AT COOPER*	156899	P248
#LINEAR INDICATIONS	FOUND IN CORE SPRAY SPARGERS AT PILGRIM 1*	155211	P804
#HIGH CESIUM ACTIVITY	FOUND IN CRANBERRIES AT PILGRIM*	161074	P833
#ERROR	FOUND IN EMERGENCY POWER CONTROL SYSTEM AT HATCH 1*	154804	P308
#CRACK	FOUND IN HPCI TURBINE COUPLING BEARING SUPPORT PEDESTAL AT BROWNS FERRY 1*	155292	P 80
#CRACK	FOUND IN JET PUMP BEAM ASSEMBLY AT QUAD-CITIES 2*	157068	P883
#CRACK	FOUND IN JET PUMP HOLD-DOWN BEAM AT VERMONT YANKEE*	160068	P878
#SET POINT DRIFT	FOUND IN MSIV CLOSURE TIMING AT QUAD-CITIES 2*	159569	P585
#REPORTABLE COBALT CONCENTRATION	FOUND IN MUSSELS AT PILGRIM 1*	159427	P818
#HIGH COBALT ACTIVITY	FOUND IN PERIPHYTON AT FITZPATRICK*	159871	P287
#INCORRECT SET POINT	FOUND IN REACTOR LEVEL SWITCH AT HATCH 1*	161951	P341
#LINEAR INDICATION	FOUND IN REACTOR WATER CLEAN-UP SYSTEM WELD AT BROWNS FERRY 1,*	154615	P 48
#TWO THROUGH-WALL CRACKS	FOUND IN REC CRITICAL LCOP WELDS AT COOPER*	155340	P263
#LEAK	FOUND IN RECIRC PUMP SUCTION TEST SECTION AT BRUNSWICK 2*	154732	P162
#LEAK	FOUND IN RECOMBINER DRAIN TRAP CONDENSATE LINE AT MONTICELLO*	153488	P427
#CRACKS	FOUND IN SAFETY VALVE GUIDE AT BROWNS FERRY 2*	157738	P 89
#TWO CRACKS	FOUND IN THE CORE SPRAY SPARGER PIPING AT OYSTER CREEK*	154469	P450
#SECTION OF A SPLIT RING	FOUND IN THE MAIN HPCI PUMP IMPELLER AT ARNOLD*	156226	P 6
#DESIGN DEFICIENCY	FOUND IN TORUS GRAVITY FILL VALVE AT HATCH 2*	154946	P349
#RHR VALVE	FOUND INOPERABLE AT BROWNS FERRY 3*	155341	P104
#THREE INACCESSIBLE SNUBBERS	FOUND INOPERABLE AT BRUNSWICK 1*	154813	P122
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#THREE SNUBBERS	FOUND INOPERABLE AT BRUNSWICK 2*	155404	P175
#HPCI AUXILIARY OIL PUMP	FOUND INOPERABLE AT COOPER*	153455	P242
#HYDRAULIC SNUBBER	FOUND INOPERABLE AT FITZPATRICK*	154652	P268
#HPCI	FOUND INOPERABLE AT HATCH 1*	159216	P304
#LPCI PIPE RESTRAIN CLEVIS PIN	FOUND MISSING AT HATCH 1*	154670	P300
#RHR PUMP BREAKER	FOUND NOT CHARGED AT COOPER*	154052	P241
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#THROUGH-WALL CRACK	FOUND ON REC PUMP DISCHARGE PIPE WELD AT COOPER*	154053	P241
#LINEAR INDICATION	FOUND ON RECIRC PUMP REDUCING INSERT WELD AT BRUNSWICK 2*	150407	P171
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#INTACT BLISTERS	FOUND ON THE TORUS COATING UNDER THE WATER LINE AT BRUNSWICK 2*	156076	P172
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1*	#STANDBY	GAS TREATMENT FAN FAILS TO MEET FLOW REQUIREMENTS AT HATCH	153760 P300
	#STANDBY	GAS TREATMENT FAN TRIPS ON OVERLOAD AT OYSTER CREEK*	159328 P462
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	#STANDBY	GAS TREATMENT SYSTEM INOPERABLE AT PILGRIM 1*	159522 P517
CREEK*	#STANDBY	GAS TREATMENT SYSTEM OPERATED IN DEGRADED MODE AT OYSTER	160354 P463
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	#DIESEL	GENERATOR BREAKER TRIPS AT BROWNS FERRY 1*	163337 P 79
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	#DIESEL	GENERATOR CYLINDER FAILS AT COOPER*	159470 P252
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LONG AT DUANE ARNOLD*	#DIESEL	GENERATOR DAY TANK ROOM FIRE SPRINKLERS OUT OF SERVICE TOO	158665 P 28
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	#DIESEL	GENERATOR MANUAL VOLTAGE REGULATOR INOPERABLE AT HATCH 1*	156092	P309
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#HPCI		GOVERNOR VALVE FAILS CLOSED AT VERMONT YANKEE*	158800	P568
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#CONTAINMENT ATMOSPHERIC MONITOR		HAS A STEP INCREASE AT BRUNSWICK 1*	154676	P127
#RDS BATTERY		HAS LOW SPECIFIC GRAVITY AT BIG ROCK POINT*	159256	P 39
#DIESEL FIRE PUMP BATTERY		HAS LOW SPECIFIC GRAVITY AT FITZPATRICK*	159498	P284
#CONTROL ROD		HAS NO POSITION INDICATION FOR CAE NOTCH AT BRUNSWICK 1*	153731	P128
#CONTROL ROD		HAS NO POSITION INDICATION FOR CAE NOTCH AT BRUNSWICK 2*	153738	P168
#OXYGEN CHANNEL OF CONTAINMENT ATMOSPHERIC MONITOR		HAS STEP CHANGED AT BRUNSWICK 1*	156116	P128
#DRYWELL EQUIPMENT		HATCH DOOR LEAKS AT BROWNS FERRY 3*	153468	P101
#UPDATE REPORT ON DRYWELL EQUIPMENT		HATCH LEAK AT BROWNS FERRY 3*	154598	P100
#WASTE OIL STORAGE AREA SOIL CONTAMINATED AT		HATCH 1 AND 2*	162080	P348
#SMOKE DETECTORS INSTALLED IMPROPERLY AT		HATCH 1 AND 2*	162087	P346
#HPCI STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT		HATCH 1*	153903	P101
#SET POINT DRIFT IN HPCI DIFFERENTIAL PRESSURE SWITCH AT		HATCH 1*	154402	P101
#UPDATE REPORT OF LEAKING LPCI VALVE AT		HATCH 1*	153761	P297
#DIESEL GENERATOR FAILS TO START WITHIN SEVEN SECONDS AT		HATCH 1*	153806	P297
#SET POINT DRIFT IN HPCI DIFFERENTIAL PRESSURE SWITCH AT		HATCH 1*	154402	P298
#SET POINT DRIFT IN RCIC FLOW INSTRUMENT AT		HATCH 1*	154403	P298
#STANDBY DIESEL SERVICE WATER PUMP TRIPS AT		HATCH 1*	153805	P298
#HPCI STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT		HATCH 1*	153803	P299
#LPCI PIPE RESTRAIN CLEVIS PIN FOUND MISSING AT		HATCH 1*	154670	P300
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#MAIN STEAM LINE DRAIN VALVE FAILS IN MID POSITION AT		HATCH 1*	154667	P301
#TURBINE CONTROL VALVE FAST CLOSURE TEST NOT PERFORMED AT		HATCH 1*	154665	P301
#SBGT SYSTEM NOT TESTED AS REQUIRED AT		HATCH 1*	154663	P302

@SECONDARY CONTAINMENT INTEGRITY MOMENTARILY VIOLATED AT	HATCH 1@	153730 P303
@DRYWELL/TORUS TEMPERATURE RECORDER PRINTS ERRATICALLY AT	HATCH 1@	153738 P303
@SET POINT DRIFT IN STANDBY LIQUID CONTROL RELIEF VALVE AT	HATCH 1@	154869 P303
@HPCI FOUND INOPERABLE AT	HATCH 1@	153216 P304
@REACTOR RECIRCULATION PUMP TRIPS AT	HATCH 1@	154857 P305
@REACTOR BUILDING VENT STACK RADIATION MONITOR FAILS AT	HATCH 1@	155586 P305
@ERROR FOUND IN EMERGENCY POWER CONTROL SYSTEM AT	HATCH 1@	154884 P306
@MSIV SCRAM RELAYS FOUND TO BE DE-ENERGIZED AT	HATCH 1@	155534 P306
@LOW PRESSURE ALARM RECEIVED ON A HCU ACCUMULATOR AT	HATCH 1@	155541 P307
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@SECONDARY CONTAINMENT INTEGRITY MOMENTARILY VIOLATED AT	HATCH 1@	156062 P308
@ELECTRONIC ANNUNCIATION NOT ON DOOR TO CONTROL BUILDING AT	HATCH 1@	156085 P308
@HPCI SYSTEM NOT OPERABLE WHEN REQUIRED AT	HATCH 1@	156091 P309
@DIESEL GENERATOR MANUAL VOLTAGE REGULATOR INOPERABLE AT	HATCH 1@	156095 P309
@SET POINT DRIFT IN RCIC FLOW SWITCH AT	HATCH 1@	156096 P309
@ROD BLOCK MONITOR NOT TESTED WHEN REQUIRED AT	HATCH 1@	155611 P310
@SECONDARY CONTAINMENT INTEGRITY MOMENTARILY VIOLATED AT	HATCH 1@	155610 P310
@DIESEL GENERATOR FAILS TO START AT	HATCH 1@	156975 P311
@CONTAINMENT HYDROGEN AND OXYGEN ANALYZER FAILS AT	HATCH 1@	156972 P311
@MAIN STACK RADIATION MONITOR SAMPLE PUMPS FAIL AT	HATCH 1@	157122 P312
@CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMIT AT	HATCH 1@	156137 P312
@CONDENSATE STORAGE TANK BASE SLAB SEAL MISSING AT	HATCH 1@	157091 P312
@CONTROL ROOM FILTER FAN TRIPS AT	HATCH 1@	157121 P313
@FIRE WATER STORAGE TANK LEVEL DROPS BELOW LIMIT AT	HATCH 1@	157090 P313
@POST LOCA MONITOR CALIBRATION NOT PERFORMED ON TIME AT	HATCH 1@	157089 P314
@DRYWELL/TORUS DIFFERENTIAL PRESSURE FAILS TOO LOW AT	HATCH 1@	156953 P315
@LPCI INBOARD ISOLATION VALVE LEAKS AT	HATCH 1@	160259 P315
@CONTAINMENT SPRAY VALVE FAILS TO OPEN AT	HATCH 1@	156991 P315
@TORUS AIR AND WATER TEMPERATURE RECORDER FAILS AT	HATCH 1@	156597 P316
@CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMIT AT	HATCH 1@	158598 P316
@DRYWELL/TORUS DIFFERENTIAL PRESSURE RECORDER FAILS AT	HATCH 1@	156995 P317
@RHR PUMP OPERABILITY TEST NOT PERFORMED CORRECTLY AT	HATCH 1@	158599 P317
@SERVICE WATER PUMP FLOW RATE FALLS BELOW LIMIT AT	HATCH 1@	158631 P318
@SPURIOUS HPCI INITIATION OCCURS AT	HATCH 1@	156997 P318
@RCIC TURBINE TRIPPED ON REACTOR STARTUP AT	HATCH 1@	160250 P318
@TUBING GOING INTO CONTAINMENT LACKS PROPER SUPPORT AT	HATCH 1@	158788 P319
@HPCI TURBINE SPEED SWINGS AT	HATCH 1@	158730 P319
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@SHUTDOWN COOLING SUCTION VALVE FAILS TO OPEN AT	HATCH 1@	158756 P321
@VACUUM BREAKER VALVE INDICATING LIGHT FAILS OFF AT	HATCH 1@	160267 P322
@HANGER MODIFICATIONS NOT COMPLETED AT	HATCH 1@	158446 P322
@RHR MINIMUM FLOW VALVES CLOSED INADVERTENTLY AT	HATCH 1@	159530 P322
@PAVEMENT DEFLECTION NEAR INTAKE STRUCTURE AT	HATCH 1@	158496 P323
@REACTOR HIGH PRESSURE SWITCH SETPOINTS TOO HIGH AT	HATCH 1@	159501 P323
@RCIC FAILS TO RESPOND TO SPEED CONTROL AT	HATCH 1@	159522 P324
@NITROGEN STORAGE TANK LEVEL TOO LOW AT	HATCH 1@	159503 P324
@DIESEL GENERATOR INOPERABLE DUE TO LOW AIR PRESSURE AT	HATCH 1@	159508 P324
@DIESEL GENERATOR FAILS TO START AT	HATCH 1@	156683 P325
@DRYWELL HYDROGEN OXYGEN RECORDER READS ABNORMALLY AT	HATCH 1@	159510 P325
@HPCI FAILS TO INJECT FOLLOWING SCRAM AT	HATCH 1@	163478 P325
@PIPE SNUBBER LEAKS AT	HATCH 1@	158684 P326
@DRYWELL TEMPERATURE RECORDER WAS STAMPING UPSCALE AT	HATCH 1@	159673 P326
@RB RADIATION MONITOR SAMPLE PUMP FAILS TO START AT	HATCH 1@	159567 P326
@DRYWELL TO TEMPERATURE RECORDER WAS NOT STAMPING AT	HATCH 1@	159669 P327
@RCIC FAILS TO INJECT INTO REACTOR VESSEL AT	HATCH 1@	158685 P327
@CONTAINMENT TEMPERATURE RECORDER FAILS TO PRINT AT	HATCH 1@	156688 P328
@INADEQUATE PIPE SUPPORTS FOUND ON RHR SYSTEM AT	HATCH 1@	159614 P328
@CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMITS TWICE AT	HATCH 1@	159627 P329
@SMOKE DETECTOR SURVEILLANCE NOT PERFORMED AT	HATCH 1@	159232 P329
@REACTOR WATER CLEANUP PIPE CRACKS AT	HATCH 1@	158724 P329
@DRYWELL PRESSURE RECORDER INOPERATIVE AT	HATCH 1@	159589 P330
@LPCI INVERTER TRIPS AT	HATCH 1@	159189 P330
@RHR SERVICE WATER LOOP INOPERABLE AT	HATCH 1@	159316 P331
@REACTOR WATER SAMPLES NOT TAKEN AT	HATCH 1@	159045 P331
@INSTRUMENT AIR PIPE SUPPORT MISSING AT	HATCH 1@	159605 P332
@RCIC PIPE SUPPORT REQUIRES MODIFICATION AT	HATCH 1@	159090 P332
@HPCI TURBINE FAILS TO TRIP ON OVERSPEED AT	HATCH 1@	159434 P332
@DRYWELL AND TORUS TEMPERATURE RECORDERS FAIL AT	HATCH 1@	159271 P333
@DRYWELL AND TORUS HYDROGEN OXYGEN RECORDER INOPERABLE AT	HATCH 1@	159290 P333
@CONTROL ROOM AIR INTAKE CHLORINE MONITOR INOPERABLE AT	HATCH 1@	159433 P333
@RHR INOPERABLE AT	HATCH 1@	159323 P334
@TORUS WATER LEVEL RECORDER INOPERABLE AT	HATCH 1@	159291 P334
@OFFGAS HYDROGEN SAMPLE PUMP TRIPS AT	HATCH 1@	159442 P334
@RHR INBOARD INJECTION VALVE FAILS TO OPEN AT	HATCH 1@	159314 P335
@DRIFT IN DRYWELL AND TORUS TEMPERATURE RECORDER AT	HATCH 1@	160128 P335
@DRYWELL VACUUM BREAKER POSITION INDICATOR FAILS AT	HATCH 1@	159486 P336
@HIGH RADIATION AREA DOORS NOT LOCKED AT	HATCH 1@	159320 P336
@PSW SYSTEM SEISMIC PIPING SUPPORT NOT INSTALLED AT	HATCH 1@	160124 P337
@RHR LOOP INOPERABLE AT	HATCH 1@	159691 P337
@BOTH SERVICE WATER TRAINS INOPERABLE AT	HATCH 1@	159408 P338
@ECCS SNUBBERS FAIL AT	HATCH 1@	160138 P338
@RHR SW PUMP INOPERABLE AT	HATCH 1@	160145 P339
@CONTROL ROOM CHLORINE MONITOR FAN INOPERABLE AT	HATCH 1@	160810 P339
@SAFETY RELIEF VALVE TAILPIPE PRESSURE SWITCH NOT TESTED AT	HATCH 1@	161039 P339
@HPCI SYSTEM INOPERABLE AT	HATCH 1@	160493 P340
@FIRE DOOR FAILS TO CLOSE AT	HATCH 1@	160486 P340

#HPCI MINIMUM FLOW VALVE FAILS TO CLOSE	AT	HATCH 1#	160868 P340
#INCORRECT SET POINT FOUND IN REACTOR LEVEL SWITCH	AT	HATCH 1#	161951 P341
#FOUR FIRE DOORS FAIL TEST	AT	HATCH 1#	160840 P341
#NITROGEN TANK LEVEL FALLS BELOW LIMIT	AT	HATCH 1#	161950 P341
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#NINE CONTROL BUILDING WALLS OVERSTRESSED	AT	HATCH 1#	160843 P342
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#DRYWELL TEMPERATURE RECORDER INOPERABLE	AT	HATCH 1#	162613 P344
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#DIESEL GENERATOR FAILS TO START IN REQUIRED TIME	AT	HATCH 2#	156876 P348
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#HYDROGEN RECOMBINER SHEATH TEMPERATURE LOW	AT	HATCH 2#	156944 P350
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#DIESEL GENERATOR FAILS TO REACH RATED VOLTAGE	AT	HATCH 2#	158313 P350
#SET POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCHES	AT	HATCH 2#	156940 P351
#ROD SEQUENCE CONTROL SYSTEM FAILS	AT	HATCH 2#	155543 P351
#HPCI MINIMUM FLOW VALVE FAILS TO CLOSE	AT	HATCH 2#	156744 P351
#CWPP EXCEEDS LIMIT DURING STARTUP	AT	HATCH 2#	156741 P352
#RCIC REMOTE SHUTDOWN FLOW CONTROL LOOP FAILS	AT	HATCH 2#	156739 P352
#RHR MINIMUM FLOW LINES NOT ADEQUATELY SUPPORTED	AT	HATCH 2#	155385 P353
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#DRYWELL OXYGEN-HYDROGEN ANALYSIS INDICATES LOW	AT	HATCH 2#	156116 P355
#TORUS-DRYWELL VACUUM BREAKER FAILS TO OPEN	AT	HATCH 2#	156143 P355
#DRYWELL OXYGEN-HYDROGEN ANALYZER FAILS	AT	HATCH 2#	156144 P355
#SET POINT DRIFT IN HPCI EXHAUST PRESSURE SWITCHES	AT	HATCH 2#	156130 P356
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#RHR SERVICE WATER PUMP FLOW DROPS SUDDENLY	AT	HATCH 2#	155433 P357
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#HYDROGEN RECOMBINER RETURN VALVE LEAKAGE UNACCEPTABLE	AT	HATCH 2#	155449 P358
#PLANT SERVICE WATER ISOLATION VALVE FAILS TO CLOSE	AT	HATCH 2#	156108 P358
#STATION BATTERY CHARGERS FAIL TO MAINTAIN REQUIRED LOAD	AT	HATCH 2#	156121 P360
#PLANT SERVICE WATER PUMP SEQUENCED TO BUS TOO SOON	AT	HATCH 2#	156122 P360
#ACCELEROMETER RECORDERS NOT CALIBRATED ON TIME	AT	HATCH 2#	157119 P360
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#CONTAINMENT ISOLATION VALVE LEAK RATES EXCEED LIMIT	AT	HATCH 2#	157132 P362
#REACTOR COOLANT CHLORIDE CONCENTRATION EXCEEDS LIMIT	AT	HATCH 2#	156996 P362
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#FEEDWATER ISOLATION VALVE LEAK RATE EXCEEDS LIMIT	AT	HATCH 2#	156222 P364
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#ADS ACCUMULATOR CHECK VALVES LEAK	AT	HATCH 2#	157008 P366
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#DIESEL GENERATOR FAILS TO TIE TO BUS	AT	HATCH 2#	158298 P366
#TORUS WATER LEVEL INSTRUMENT READS DOWNSCALE	AT	HATCH 2#	158297 P367
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#STANDBY GAS TREATMENT POWER CABLES UNDERSIZED	AT	HATCH 2#	156861 P368
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#CONTAINMENT PURGE VACUUM BREAKER PRESSURE SWITCH FAILS	AT	HATCH 2#	158726 P369
#RCIC STEAM SUPPLY LINE ISOLATION VALVE FAILS TO CLOSE	AT	HATCH 2#	156663 P370
#RPS LOGIC FEEDER BREAKER FAILS	AT	HATCH 2#	156936 P370
#LPCI PUMP FAILS TO START	AT	HATCH 2#	156994 P370
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#STANDBY GAS TREATMENT FILTER TRAIN FAILS TO START	AT	HATCH 2#	156930 P372
#TORUS VACUUM BREAKER FAILS	AT	HATCH 2#	156933 P372
#TORUS TEMPERATURE RECORDER FAILS	AT	HATCH 2#	156934 P373
#MSIV LEAKAGE CONTROL SYSTEM BLEED VALVE LOOSES POWER	AT	HATCH 2#	157189 P373
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#DRYWELL HYDROGEN-OXYGEN ANALYZER PUMP DIAPHRAGM FAILS	AT	HATCH 2#	156958 P374
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#DRYWELL HYDROGEN-OXYGEN ANALYZER FAILS AT	HATCH 2#	156857	P375
#HPCI MINIMUM FLOW CONTROL VALVE CYCLES AT	HATCH 2#	156836	P375
#HPCI STEAM LINE DELTA P SWITCH SHORTS AT	HATCH 2#	156863	P376
#HYDROGEN RECOMBINER SYSTEM FAILS TO OPERATE AT	HATCH 2#	157161	P377
#MSIV LEAKAGE CONTROL SYSTEM RELAY FAILS TO OPEN AT	HATCH 2#	156863	P378
#HPCI ISOLATION VALVE FAILS TO CLOSE AT	HATCH 2#	158636	P379
#MAIN STEAM ISOLATION VALVE FAILS TO CLOSE AT	HATCH 2#	158265	P380
#LIMIT SWITCHES ON RHR PUMP VALVES ARE BROKEN AT	HATCH 2#	157702	P380
#RCIC TRIPS ON MANUAL STARTUP AT	HATCH 2#	159127	P381
#RHR SERVICE WATER PUMPS FAIL AT	HATCH 2#	158671	P381
#DRYWELL TEMPERATURE EXCEEDS LIMIT AT	HATCH 2#	158673	P381
#REACTOR WATER LEVEL SWITCH FAILS AT	HATCH 2#	158674	P382
#REACTOR WATER LEVEL SWITCH FAILS AT	HATCH 2#	158675	P382
#HPCI INOPERABLE AT	HATCH 2#	159620	P382
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#ROD BLOCK MONITOR FAILS TO OPERATE AT	HATCH 2#	159594	P384
#DRYWELL AVERAGE TEMPERATURE EXCEEDED THE 145 F LIMIT AT	HATCH 2#	159626	P384
#CONTAINMENT VACUUM BREAKER VALVE FAILS CLOSED AT	HATCH 2#	158445	P384
#UPDATE ON VACUUM BREAKER FAILURE AT	HATCH 2#	163461	P385
#MSL LEAKAGE CONTROL FLOW INDICATOR FAILS AT	HATCH 2#	159593	P385
#TORUS VACUUM BREAKER VALVE FAILED OPEN AT	HATCH 2#	159629	P385
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#HPCI PUMP INOPERABLE AT	HATCH 2#	159582	P386
#HPCI INJECTION VALVE FAILS TO OPEN AT	HATCH 2#	159157	P387
#REACTOR PROTECTION SYSTEM RELAYS NOT TESTED IN TIME AT	HATCH 2#	159092	P387
#SET POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT	HATCH 2#	158774	P387
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#HPCI SUPPRESSION CHAMBER SUCTION VALVE FAILS TO OPEN AT	HATCH 2#	159317	P390
#HPCI INOPERABLE AT	HATCH 2#	159292	P390
#HPCI STEAM LINE DELTA P FLOW SWITCH INOPERABLE AT	HATCH 2#	159306	P391
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#HPCI FAILS TO ISOLATE AT	HATCH 2#	159307	P391
#DIESEL GENERATOR FAILS TO TIE INTO BUS AT	HATCH 2#	159312	P392
#TORUS TEMPERATURE EXCEEDS LIMIT AT	HATCH 2#	159308	P392
#RCIC TURBINE FAILS TO RESET AT	HATCH 2#	159311	P393
#DRYWELL HYDROGEN OXYGEN ANALYZER GIVES FALSE READINGS AT	HATCH 2#	159310	P393
#RECIRCULATION PUMP TRIPS ON LOW OIL PRESSURE AT	HATCH 2#	159315	P394
#REACTOR HIGH PRESSURE SWITCH SET POINT INCORRECT AT	HATCH 2#	159305	P394
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#INBOARD #SIV LEAKAGE CONTROL SYSTEM INOPERABLE AT	HATCH 2#	159373	P395
#CONTAINMENT HYDROGEN OXYGEN ANALYZER INOPERABLE AT	HATCH 2#	159376	P395
#DIESEL GENERATOR FAILS TO START AT	HATCH 2#	160441	P396
#SET POINT DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT	HATCH 2#	160370	P396
#TORUS/DRYWELL VACUUM BREAKER FAILS TO OPEN AT	HATCH 2#	160476	P396
#CONTAINMENT HYDROGEN OXYGEN ANALYZER INOPERABLE AT	HATCH 2#	160040	P397
#SET POINT DRIFT IN REACTOR PRESSURE SWITCH AT	HATCH 2#	160450	P397
#SET POINT DRIFTS IN CORE SPRAY PUMP PRESSURE SWITCH AT	HATCH 2#	160489	P397
#REACTOR LEVEL SWITCHES TRIP TOO LATE AT	HATCH 2#	160518	P398
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#SET POINT DRIFT IN HPCI TURBINE PRESSURE SWITCH AT	HATCH 2#	160519	P399
#TORUS PURGE ISOLATION VALVE LEAKS AT	HATCH 2#	161712	P399
#RADWASTE PIPING IS NOT SEISMICALLY PROTECTED AT	HATCH 2#	160522	P399
#DRYWELL-TORUS VACUUM BREAKERS NOT TESTED ON TIME AT	HATCH 2#	160448	P400
#SET POINT DRIFT IN HPCI STEAM LINE DP SWITCH AT	HATCH 2#	161872	P400
#FIRE WALL INTEGRITY BREACHED AT	HATCH 2#	160841	P401
#SET POINT MAIN STEAM LINE PRESSURE SWITCH AT	HATCH 2#	161473	P401
#REACTOR PRESSURE CALIBRATION PROCEDURE NOT REVIEWED AT	HATCH 2#	161874	P401
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#RHR AND CONDENSATE ISOLATION VALVES LEAK AT	HATCH 2#	161759	P405
#CONTAINMENT ISOLATION BELLOWS APPEARS TO LEAK AT	HATCH 2#	162417	P405
#MONORAIL HOIST OPERABILITY NOT VERIFIED BEFORE USE AT	HATCH 2#	162423	P406
#DIESEL GENERATOR FAILS AT	HATCH 2#	161881	P406
#AUTOMATIC DEPRESSURIZATION VALVES FAIL AT	HATCH 2#	161883	P407
#CONTAINMENT ISOLATION VALVE LEAKAGE EXCEEDS LIMIT AT	HATCH 2#	162703	P407
#REACTOR VESSEL HEAD INSULATION NOT SEISMIC QUALIFIED AT	HATCH 2#	162146	P408
#CONTAINMENT ISOLATION VALVE LEAKS AT	HATCH 2#	162702	P408
#HPCI AND RCIC ACTUATIONS AT	HATCH 2#	163445	P408
#HPCI INJECTS INTO REACTOR VESSEL TWICE AT	HATCH 2#	159030	P409
#HPCI ACTUATION AT	HATCH 2#	162085	P409
#THREE HPCI INJECTIONS AT	HATCH 2#	162086	P409
RCIC MADE INOPERATIVE WITHOUT BEING DECLARED INOPERATIVE AT	HATCH 2#	0 155300	P353
FIRE PROTECTION SYSTEM VALVE TESTS NOT PERFORMED ON TIME AT	HATCH 2#	0 154738	P354
EMERGENCY STATION BATTERIES FAIL TO MAINTAIN THEIR LOADS AT	HATCH 2#	0 156117	P359
SET POINT DRIFT IN TURBINE CONTROL VALVE PRESSURE SWITCH AT	HATCH 2#	0 156118	P359
UPDATE ON SINGLE FAILURE CRITERION VIOLATION BY S# VALVE AT	HATCH 2#	0 163451	P363
RADWASTE DISCHARGE ISOLATION VALVE LEAKAGE EXCEEDS LIMIT AT	HATCH 2#	0 158308	P368
CORE MAXIMUM FRACTION OF LIMITING POWER DENSITY TOO HIGH AT	HATCH 2#	0 157172	P378
CRYSTALLINE DEPOSITS FOUND ON DRYWELL SACRIFICIAL SHIELD AT	HATCH 2#	0 159325	P389

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FIRE BARRIER PENETRATION SEAL INTO CONTROL ROOM BREACHED AT  HATCH 2#                                  # 150364 P303
  PUMP OPERABILITY TEST PROCEDURE REQUIRES MODIFICATION AT   HATCH 2#                                #JET  150096 P309
CONTROL ROD NOT PULLED TO TARGET POSITION DURING STARTUP AT  HATCH 2#                                #ONE  150132 P307
#OINT DRIFT IN SHUTDOWN COOLING SYSTEM PRESSURE SWITCHES AT  HATCH 2#                                #SET  150002 P379
  MAXIMUM FRACTION OF LIMITING POWER DENSITY IS TOO HIGH AT  HATCH 2#                                #CORE 150010 P303
 TURBINE EXHAUST ISOLATION VALVE LEAK RATE EXCEEDS LIMIT AT  HATCH 2#                                #RCIC 151002 P404
    HPCI, RCIS, AND CS PRESSURE SWITCHES SETPOINTS DRIFT AT  HATCH 2#                                #RPS, 150991 P306
 SUPPLY FOR RCIC STEAM LEAK DETECTION SYSTEM FAILS TWICE AT  HATCH 2#                                #POWER 154021 P347
 LOST FROM FILTERS IN REFUELING FLOOR VENTILATION SYSTEM AT  HATCH 2#                                #CARBON 150000 P305
    GENERATOR AND CORE SPRAY TESTS NOT PERFORMED ON TIME AT  HATCH 2#                                #DIESEL 150000 P304
  RANGE TORUS WATER LEVEL TRANSMITTER OUT OF CALIBRATION AT  HATCH 2#                                #NARROW 150040 P348
 ROD DRIVE ACCUMULATOR PRESSURE SWITCHES SET INCORRECTLY AT  HATCH 2#                                #CONTROL 157131 P301
PNEUMATIC RETURN ISOLATION VALVE LEAK RATE EXCEEDS LIMIT AT  HATCH 2#                                #DRYWELL 151000 P400
 RATE OF THREE CONTAINMENT ISOLATION VALVES UNACCEPTABLE AT  HATCH 2#                                #LEAKAGE 150032 P306
 CORE ISOLATION COOLANT LEAK DETECTION SYSTEM INOPERATIVE AT  HATCH 2#                                #REACTOR 150040 P376
  DRIFT IN STANDBY LIQUID CONTROL DISCHARGE RELIEF VALVE AT  HATCH 2#                                #SETPOINT 157072 P307
    AIR LOCK DOORS INTERLOCK TEST NOT PERFORMED ON TIME AT   HATCH 2#                             #CONTAINMENT 150010 P372
       HYDROGEN RECOMBINER TEST NOT PERFORMED PROPERLY AT    HATCH 2#                             #CONTAINMENT 150005 P370
       PURGE OPERATED TOO LONG WHEN INTEGRITY REQUIRED AT    HATCH 2#                             #CONTAINMENT 150002 P300
   FAILS TO GC INOPERABLE WITH LESS THAN 11 LPRM INPUTS AT   HATCH 2#                             #APRM CHANNEL 155299 P303
     FRACTION OF LIMITING POWER DENSITY NOT CALCULATED AT    HATCH 2#                             #CORE MAXIMUM 157107 P377
  THROTTLE VALVE CLOSES AND HPCI ISOLATION VALVE CLOSES AT   HATCH 2#                             #RCIC TRIP AND 150007 P376
    VOLUME HIGH LEVEL ROD WITHDRAWAL BLOCK SWITCH FAILS AT   HATCH 2#                          #SCRAM DISCHARGE 150109 P300
   IN CONTROL ROD DRIVE ACCUMULATOR PRESSURE INDICATORS AT   HATCH 2#                          #SET POINT DRIFT 150044 P378
     TEMPERATURE SENSORS CONNECTED TO WRONG INDICATORS AT    HATCH 2#                       #TORUS AND DRYWELL 150003 P300
                                #EMERGENCY BUS RELAYS        HAVE EXCESSIVE TIME DELAY AT DUANE ARNOLD#  150045 P 10
                                #EMERGENCY BUS RELAYS        HAVE EXCESSIVE TIME DELAY AT DUANE ARNOLD#  160262 P 12
        #TURBINE PRESSURE PERMISSIVE AND PRESSURE SWITCHES    HAVE SETPOINT DRIFT AT BROWNS FERRY 3#  150108 P110
                          #LOW PRESSURE ALARM RECEIVED ON A   HCU ACCUMULATOR AT HATCH 1#             150041 P307
                                                  # HEAD DEVELOPED BY PLANT SERVICE WATER PUMP EXCEEDS LIMIT  156100 P310
AT HATCH 1#
                             #REACTOR VESSEL                 HEAD INSULATION NOT SEISMIC QUALIFIED AT HATCH 2#  162146 P408
                              #SERVICE WATER                 HEADER ANTI-SIPHON PIPE SNUBBER FAILS AT BRUNSWICK 1#  163391 P150
                    #A SENSING LINE ON THE MAIN FIRE         HEADER LEAKS AT BROWNS FERRY 1#             157737 P 64
                                    #DAMAGED                 HEAT DETECTOR CAUSES FALSE ALARM AT BROWNS FERRY 3#  150002 P112
                                                  # HEAT DETECTOR SURVEILLANCE NOT PERFORMED ON TIME AT  160023 P219
DRESDEN 2#
        #RESTRICTION IN COOLING WATER LINE FOR RHR PUMP SEAL  HEAT EXCHANGER AT BROWNS FERRY 3#          157037 P100
    #RESTRICTION IN COOLING WATER LINE FOR DIESEL GENERATOR   HEAT EXCHANGER AT BROWNS FERRY 3#          157436 P108
                                          #RHR               HEAT EXCHANGER INOPERABLE AT COOPER#        162523 P208
                                          #RHR               HEAT EXCHANGER LEAKS AT BROWNS FERRY 1#     157160 P 63
                                          #RHR               HEAT EXCHANGER LEAKS AT BROWNS FERRY 1#     158710 P 64
                                          #RHR               HEAT EXCHANGER LEAKS AT BROWNS FERRY 2#     159308 P 92
                                          #RHR               HEAT EXCHANGER LEAKS AT BROWNS FERRY 2#     160302 P 92
                             #DIESEL GENERATOR COOLING       HEAT EXCHANGER LEAKS AT DRESDEN 2#          155312 P210
                                  #DG COOLING WATER          HEAT EXCHANGER LEAKS AT DRESDEN 2#          159532 P216
                                          #LPCI              HEAT EXCHANGER LEAKS AT DRESDEN 3#          163348 P239
                        #LEAK IN REACTOR WATER CLEANUP       HEAT EXCHANGER LINE AT DRESDEN 3#           161082 P237
                                          #RHR               HEAT EXCHANGER ON CROSSTIE LEAKS AT BROWNS FERRY 3#  159391 P118
                                          #RHR               HEAT EXCHANGER RIB PLATE BUCKLES AT BRUNSWICK 2#  160290 P176
                                          #LPCI              HEAT EXCHANGER SW OUTLET VALVE BREAKER FOUND OPEN AT  153944 P224
DRESDEN 3#
                                          #LPCI              HEAT EXCHANGER TUBES LEAK AT DRESDEN 2#      160087 P219
                                          #LPCI              HEAT EXCHANGER TUBES LEAK AT DRESDEN 3#      158708 P233
                                #CONTAINMENT SPRAY           HEAT EXCHANGER TUBES LEAK AT OYSTER CREEK#   155993 P483
                                        #LINEAR              HEAT GENERATION RATE EXCEEDED AT BROWNS FERRY 1#  159212 P 67
                                        #LINEAR              HEAT GENERATION RATE EXCEEDED AT BROWNS FERRY 1#  161886 P 75
                                #AVERAGE PLANAR              HEAT GENERATION RATE EXCEEDS LIMIT AT NINE MILE POINT 1#  154448 P438
                         #AVERAGE PLANAR LINEAR              HEAT GENERATION RATE EXCEEDS LIMIT AT NINE MILE POINT 1#  154445 P439
                                        #LINEAR              HEAT GENERATION RATE LIMIT EXCEEDED IN THREE NODES AT  159102 P 66
BROWNS FERRY 1#
                                        #LINEAR              HEAT GENERATION RATE NOT CHECKED AT BROWNS FERRY 2#  159337 P 91
                                          #CORE              HEAT GENERATION RATE TESTS MISSED AT OYSTER CREEK 1#  161077 P408
BROWNS FERRY 2#
                                     #RESIDUAL               HEAT REMOVAL SYSTEM CONTROL VALVE TRIPS IN MID-POSITION AT  154707 P103
                           #PRESSURE DROP ACROSS             HEPA FILTER EXCEEDS LIMIT AT OYSTER CREEK 1#  160520 P406
                                          #RCIC              HIGH AMBIENT TEMPERATURE SWITCH FAILS AT PIZPATRICK#  158636 P281
          #TURBINE FIRST STAGE PRESSURE SWITCH SET POINTS     HIGH AT BROWNS FERRY 3#                     159245 P114
                        #DRYWELL PRESSURE INDICATOR READS    HIGH AT BRUNSWICK 1#                        154730 P123
      #MAIN STEAM LINE LEAK DETECTION TEMPERATURE SWITCH SET  HIGH AT DUANE ARNOLD#                       160325 P 12
        #DRYWELL TEMPERATURE RECORDER PRINTS ERRATICALLY AND  HIGH AT HATCH 1#                           158586 P305
                  #REACTOR HIGH PRESSURE SWITCH SETPOINTS TOO HIGH AT HATCH 1#                           159801 P323
                     #FISSION PRODUCT IODINE MONITOR INDICATES HIGH AT HATCH 2#                          154624 P346
      #CORE MAXIMUM FRACTION OF LIMITING POWER DENSITY TOO    HIGH AT HATCH 2#                          157172 P370
    #CORE MAXIMUM FRACTION OF LIMITING POWER DENSITY IS TOO   HIGH AT HATCH 2#                          159018 P303
      #REACTOR HIGH PRESSURE SCRAM SENSOR TRIPS 9 PSIG TOO    HIGH AT OYSTER CREEK#                     157009 P406
      #ELECTROMATIC RELIEF VALVE SENSOR SETPOINTS WERE TOO    HIGH AT OYSTER CREEK#                     160261 P408
        #TURBINE COMPARTMENT TEMPERATURE SWITCH SETPOINT IS   HIGH AT PILGRIM 1#                         159242 P811
                                                  # HIGH CESIUM ACTIVITY FOUND IN CRANBERRIES AT PILGRIM#  161074 P833
                        #REACTOR WATER SAMPLES INDICATE       HIGH CHLORIDE CONCENTRATION AT PITZPATRICK#  155291 P272
                                                  # HIGH COBALT ACTIVITY FOUND IN PERIPHYTON AT PITZPATRICK#  159871 P207
CANAL AT PILGRIM 1#
                                                  # HIGH COBALT CONCENTRATION IN MOSS TAKEN FROM DISCHARGE  159560 P810
                                                  # HIGH COBALT CONCENTRATION IN MUSSELS AT PILGRIM 1#  161908 P836
                                                  # HIGH COOLANT ACTIVITY AFTER SCRAM AT BRUNSWICK 2#  161758 P194
                    #SET POINT DRIFT IN HPCI STEAMLINE    HIGH D/P SWITCH AT BRUNSWICK 2#             156107 P173
                                #SET POINT DRIFT IN       HIGH DRYWELL PRESSURE SWITCH AT PITZPATRICK#  160438 P291
                                #SET POINT DRIFT OF       HIGH DRYWELL PRESSURE SWITCH FOUND AT QUAD CITIES 1#  156964 P543
                                                  # HIGH DRYWELL PRESSURE SWITCH SURVEILLANCE NOT PERFORMED ON  159064 P330
TIME AT HATCH 1#
                                #SET POINT DRIFT IN       HIGH DRYWELL PRESSURE SWITCHES AT HATCH 2#  154940 P301
                                #SET POINT DRIFT IN       HIGH DRYWELL PRESSURE SWITCHES AT HATCH 2#  158774 P397
                                #SET POINT DRIFT IN       HIGH DRYWELL PRESSURE SWITCHES AT OYSTER CREEK#  160326 P402
                                #SET POINT DRIFT IN       HIGH DRYWELL PRESSURE SWITCHES AT OYSTER CREEK#  161644 P406
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	#	HIGH DRYWELL TEMPERATURE AT PILGRIM 1*	160042 P514
	#DIESEL GENERATOR TRIPS ON	HIGH ENGINE TEMPERATURE AT QUAD CITIES 1*	161063 P548
	#MAIN STEAM LINE	HIGH FLOW SENSORS FAIL TO TRIP ON SETPOINT AT OYSTER CREEK*	163385 P47C
	#SET POINT DRIFT IN MAINSTEAM LINE	HIGH FLOW SWITCH AT BROWNS FERRY 2*	153430 P 79
	#SET POINT DRIFT IN MAIN STEAM LINE	HIGH FLOW SWITCH AT HILLSTONE 1*	155195 P420
	#MAIN STEAM LINE	HIGH FLOW SWITCH FAILS TO TRIP ON SETPOINT AT DRESDEN 3*	158021 P233
	#SET POINT DRIFT IN RCIC TURBINE STEAM LINE	HIGH FLOW SWITCHES AT PEACH BOTTOM 2*	161779 P484
PILGRIM 1*	#ROD BLOCK AND	HIGH FLUX SCRAM CALIBRATIONS ARE NONCONSERVATIVE AT	159385 P517
	#SCRAM DISCHARGE VOLUME	HIGH HIGH LEVEL ALARM FAILS AT DRESDEN 2*	163371 P223
	#SCRAM DISCHARGE VOLUME HIGH	HIGH LEVEL ALARM FAILS AT DRESDEN 2*	163371 P223
	#SCRAM DISCHARGE VOLUME	HIGH LEVEL INSTRUMENT TEST NOT PERFORMED AT DUANE ARNOLD*	161926 P 25
	#SCRAM DISCHARGE VOLUME	HIGH LEVEL ROD WITHDRAWAL BLOCK SWITCH FAILS AT HATCH 2*	159150 P390
	#SCRAM DISCHARGE VOLUME	HIGH LEVEL SWITCH FAILS AT BROWNS FERRY 1*	158293 P 65
	#SCRAM DISCHARGE VOLUME	HIGH LEVEL SWITCHES FAIL AT HATCH 2*	159584 P361
	#TORUS LEVEL EXCEEDS	HIGH LIMIT AT BRUNSWICK 2*	155513 P173
VERMONT YANKEE*	#SUPPRESSION POOL LEVEL INDICATOR READS	HIGH OFFSCALE AT BRUNSWICK 2*	155534 P168
CREEK*	#POTENTIAL FOR	HIGH OR LOW VOLTAGE ON 4160 AND 480V SYSTEMS EXISTS AT	155497 P570
	#REACTOR	HIGH PRESSURE SCRAM SENSOR TRIPS S PSIG TOO HIGH AT OYSTER	157699 P456
	#SET POINT DRIFT IN REACTOR	HIGH PRESSURE SCRAM SENSORS AT OYSTER CREEK*	159326 P460
	#SET POINT DRIFT IN DRYWELL	HIGH PRESSURE SWITCH AT BROWNS FERRY 3*	161598 P118
	#SET POINT DRIFT IN LPCI DRYWELL	HIGH PRESSURE SWITCH AT DRESDEN 2*	163379 P222
	#SET POINT DRIFT IN DRYWELL	HIGH PRESSURE SWITCH AT DUANE ARNOLD*	161990 P 23
	#SET POINT DRIFT IN CONTAINMENT	HIGH PRESSURE SWITCH AT HILLSTONE 1*	160459 P423
	#REACTOR	HIGH PRESSURE SWITCH SET POINT INCORRECT AT HATCH 2*	159305 P394
	#REACTOR	HIGH PRESSURE SWITCH SETPOINT DRIFTS AT HATCH 2*	159588 P328
	#REACTOR	HIGH PRESSURE SWITCH SETPOINTS TOO HIGH AT HATCH 1*	159501 P323
	#SET POINT DRIFT IN REACTOR	HIGH PRESSURE SWITCHES AT BROWNS FERRY 2*	159336 P 90
	#SET POINT DRIFT IN REACTOR	HIGH PRESSURE SWITCHES AT HATCH 2*	160370 P396
	#SET POINT DRIFT IN DRYWELL	HIGH PRESSURE SWITCHES AT OYSTER CREEK*	160817 P465
	#	HIGH RADIATION AREA DOORS NOT LOCKED AT HATCH 1*	159320 P336
	#SET POINT DRIFT IN MAIN STEAM LINE	HIGH RADIATION MONITOR AT BRUNSWICK 1*	154882 P130
	#MAIN STEAM LINE	HIGH RADIATION MONITOR OUT OF CALIBRATION AT BRUNSWICK 1*	154510 P125
	#HPCI STUCK ON	HIGH SPEED AT QUAD CITIES 2*	159524 P558
	#HPCI	HIGH STEAM FLOW INSTRUMENT FAILS DOWNSCALE AT COOPER*	154051 P241
	#SET POINT DRIFT IN RCIC	HIGH STEAM FLOW SWITCH AT FITZPATRICK*	154653 P261
	#SET POINT DRIFT IN	HIGH STEAMLINE RADIATION CHANNEL AT BRUNSWICK 1*	157057 P134
	#SET POINT DRIFT IN	HIGH STEAMLINE RADIATION CHANNEL AT BRUNSWICK 1*	160317 P142
	#SET POINT DRIFT IN HPCI TURBINE AREA	HIGH TEMPERATURE SWITCH AT QUAD CITIES 1*	160451 P547
	#DRIFTING LPRM CAUSES INDICATED	HIGH THERMAL LIMIT AT FITZPATRICK*	155418 P273
	#HPCI REACTOR	HIGH WATER LEVEL TRIP INOPERABLE AT BROWNS FERRY 1*	156011 P 55
	#APRM FLOW SIGNAL IS	HIGHER THAN ACTUAL FLOW AT BROWNS FERRY 2*	157042 P 86
	#MONORAIL	HOIST OPERABILITY NOT VERIFIED BEFORE USE AT HATCH 2*	162423 P406
	#REACTOR DEPRESSURIZING BATTERY FAILS TO	HOLD CHARGE AT BIG ROCK POINT*	160072 P 40
	#CRACK FOUND IN JET PUMP	HOLD-DOWN BEAM AT VERMONT YANKEE*	160062 P578
	#	HOLDUP TANK NOT SAMPLED AT DRESDEN 1*	149515 P206
	#HYDRANT	HOSE HOUSE LOST AT PILGRIM 1*	156034 P506
	#DIESEL GENERATOR FAILS 3 TIMES DURING 2*	HOUR LOAD TEST AT PILGRIM 1*	158646 P509
	#HYDRANT HOSE	HOUSE LOST AT PILGRIM 1*	156034 P506
	#UPDATE REPORT ON CONTROL ROD DRIVE	HOUSING LEAK AT BIG ROCK POINT*	153935 P 29
	#	HPCI ACTUATION AT HATCH 2*	162085 P409
	#LACK OF SEPARATION OF	HPCI AND ADS CABLES DISCOVERED AT MONTICELLO*	156045 P430
	#	HPCI AND RCIC ACTUATIONS AT HATCH 2*	163445 P408
	#MULTIPLE	HPCI AND RCIC FAILURES OCCUR AT PILGRIM 1*	159600 P510
	#	HPCI AND RCIC FIRE DETECTORS FAIL TO ALARM AT PILGRIM 1*	159268 P520
FITZPATRICK*	#	HPCI AND RCIC STEAM PRESSURE SWITCH SETPOINTS INCORRECT AT	159576 P288
*	#	HPCI AND RHR VALVE LEAK RATES EXCEED LIMITS AT HATCH 2*	161914 P484
	#	HPCI AUTOMATIC FLOW CONTROL POWER INVERTER TRIPS AT HATCH 2	153705 P349
	#	HPCI AUXILIARY OIL PUMP FAILS TO RUN AT BRUNSWICK 1*	155552 P131
	#	HPCI AUXILIARY OIL PUMP FEEDER BREAKER TRIPS AT HATCH 2*	154737 P354
	#	HPCI AUXILIARY OIL PUMP FOUND INOPERABLE AT COOPER*	153455 P242
	#	HPCI CHECK VALVE LEAK RATE EXCEEDS LIMIT AT BROWNS FERRY 2*	160092 P 94
	#	HPCI CONTROL POWER FAILS AT VERMONT YANKEE*	160337 P575
	#SET POINT DRIFT IN	HPCI DIFFERENTIAL PRESSURE SWITCH AT HATCH 1*	154492 P161
	#SET POINT DRIFT IN	HPCI DIFFERENTIAL PRESSURE SWITCH AT HATCH 1*	154492 P298
CITIES 2*	#	HPCI EGR ACTUATOR GROUNDED AT BROWNS FERRY 1*	161453 P 75
	#	HPCI EMERGENCY OIL PUMP DISCHARGE LINE LEAKS AT QUAD	158714 P556
	#	HPCI EXHAUST LINE SNUBBER INOPERABLE AT PILGRIM 1*	153465 P501
	#SET POINT DRIFT IN	HPCI EXHAUST PRESSURE SWITCHES AT HATCH 2*	156130 P356
	#RCIC AND	HPCI EXHAUST VALVES CLOSED AT BRUNSWICK 2*	160358 P187
	#	HPCI FAILS TO INJECT FOLLOWING SCRAM AT HATCH 1*	163478 P325
FERRY 1*	#	HPCI FAILS TO ISOLATE AT HATCH 2*	159307 P391
	#	HPCI FAILS TO MEET FLOW REQUIREMENT DUE TO TRIP AT BROWNS	158272 P 63
	#	HPCI FAILS TO RUN AT BRUNSWICK 1*	156183 P137
	#	HPCI FLOW CONTROLLER FAILS AT PEACH BOTTOM 3*	161772 P499
	#	HPCI FOUND INOPERABLE AT HATCH 1*	159216 P304
	#	HPCI GOVERNOR VALVE FAILS CLOSED AT VERMONT YANKEE*	155590 P568
	#	HPCI HIGH STEAM FLOW INSTRUMENT FAILS DOWNSCALE AT COOPER*	154051 P241
	#SPURIOUS	HPCI INITIATION OCCURS AT HATCH 1*	156997 P318
	#	HPCI INJECTION VALVE FAILS TO OPEN AT HATCH 2*	159157 P387
	#THREE	HPCI INJECTIONS AT HATCH 2*	162086 P409
	#	HPCI INJECTS INTO REACTOR VESSEL TWICE AT HATCH 2*	159050 P409
	#	HPCI INOPERABLE AT COOPER*	159478 P248
	#	HPCI INOPERABLE AT COOPER*	159477 P249
	#	HPCI INOPERABLE AT COOPER*	159251 P254
	#SPURIOUS AUTO ISOLATION SIGNAL MAKES	HPCI INOPERABLE AT HATCH 2*	156958 P374
	#	HPCI INOPERABLE AT HATCH 2*	159620 P382
	#	HPCI INOPERABLE AT HATCH 2*	159619 P383

		# HPCI	INOPERABLE AT HATCH 2#	159298 P399
		# HPCI	INOPERABLE AT PEACH BOTTOM 2#	161638 P404
		# HPCI	INOPERABLE AT PEACH BOTTOM 3#	162034 P380
	#RCIC AND	HPCI	INOPERABLE AT QUAD-CITIES 2#	161901 P382
	#	HPCI	INSTRUMENT SENSING LINE PIPE HANGERS BREAK AT BROWNS	158307 P 30
FERRY 1#				
#RCIC TRIP AND THROTTLE VALVE CLOSES AND		HPCI	ISOLATION VALVE CLOSES AT HATCH 2#	156957 P376
	#	HPCI	ISOLATION VALVE FAILS TO CLOSE AT HATCH 2#	156856 P379
AT DUANE ARNOLD#	#	HPCI	LEAK DETECTION TEMPERATURE DIFFERENTIAL SWITCH FAILS	160851 P 31
BOTTOM 2#	#	HPCI	LINE BREAK COULD OVERPRESSURIZE COMPARTMENT AT PEACH	158286 P477
	#	HPCI	MADE INOPERABLE FOR REPAIRS AT FITZPATRICK#	156974 P274
	#	HPCI	MINIMUM FLOW CONTROL VALVE CYCLES AT HATCH 2#	156856 P378
	#	HPCI	MINIMUM FLOW VALVE FAILS TO CLOSE AT HATCH 1#	160860 P340
	#	HPCI	MINIMUM FLOW VALVE FAILS TO CLOSE AT HATCH 2#	156704 P381
PILGRIM 1#	#	HPCI	PIPE SNUBBERS FAIL AND PUMP CASING GASKET LEAKS AT	159179 P515
#	#	HPCI	PUMP DISCHARGE PIPE CLAMP NOT CONNECTED AT BRUNSWICK 1	163393 P188
#SECTION OF A SPLIT RING FOUND IN THE MAIN		HPCI	PUMP IMPELLER AT ARNOLD#	156226 P 6
	#	HPCI	PUMP INOPERABLE AT HATCH 2#	159092 P386
	#	HPCI	PUMP MINIMUM FLOW VALVE FAILS TO CLOSE AT FITZPATRICK#	158301 P276
#LEAK FOUND ON		HPCI	PUMP SEAL SUPPLY LINE AT ARNOLD#	158527 P 3
#FIRE DETECTOR ALARMS IN		HPCI	QUADRANT AT PILGRIM 1#	159552 P512
	#	HPCI	REACTOR HIGH WATER LEVEL TRIP INOPERABLE AT BROWNS	156011 P 55
FERRY 1#				
#SET POINT DRIFT IN		HPCI	STEAM FLOW SENSOR AT PEACH BOTTOM 2#	160485 P481
	#	HPCI	STEAM ISOLATION VALVE CLOSES AT FITZPATRICK#	158517 P273
	#	HPCI	STEAM LINE DELTA P FLOW SWITCH INOPERABLE AT HATCH 2#	159306 P391
	#	HPCI	STEAM LINE DELTA P SWITCH SHORTS AT HATCH 2#	156883 P376
#SET POINT DRIFT IN		HPCI	STEAM LINE DP SWITCH AT HATCH 2#	161872 P400
#SET POINT DRIFT IN		HPCI	STEAM LINE FLOW SWITCH AT HATCH 2#	158771 P386
#SET POINT DRIFT IN		HPCI	STEAM LINE SPACE TEMPERATURE SWITCH AT BROWNS FERRY 1#	161796 P 77
#INCORRECT		HPCI	STEAM LINE SPARE TEMPERATURE SWITCH INSTALLED AT	157030 P 58
BROWNS FERRY 1#				
	#	HPCI	STEAM SUPPLY ISOLATION VALVE FAILS AT MONTICELLO#	159422 P436
#SPURIOUS SIGNAL CLOSES		HPCI	STEAM SUPPLY VALVE AT FITZPATRICK#	154658 P281
	#	HPCI	STEAM SUPPLY VALVE FAILS TO OPEN AT DRESDEN 2#	160506 P220
	#	HPCI	STEAM SUPPLY VALVE FAILS TO OPEN AT DRESDEN 3#	160903 P238
	#	HPCI	STEAM SUPPLY VALVE MOTOR FAILS AT FITZPATRICK#	162035 P299
	#	HPCI	STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT	153503 P161
HATCH 1#	#	HPCI	STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT	153503 P299
HATCH 1#	#	HPCI	STEAM THROTTLE VALVE OSCILLATES AT PILGRIM 1#	160366 P824
	#	HPCI	STEAM THROTTLE VALVE OSCILLATES AT PILGRIM 1#	160260 P824
#SET POINT DRIFT IN		HPCI	STEAMLINE HIGH D/P SWITCH AT BRUNSWICK 2#	156107 P173
	#	HPCI	STEAMLINE LEAKS AT QUAD-CITIES 2#	159241 P557
#SET POINT DRIFT IN		HPCI	STEAMLINE LOW PRESSURE SWITCH AT HATCH 1#	161614 P342
	#	HPCI	STOP VALVE COVER LEAKS AT QUAD-CITIES 2#	161902 P562
	#	HPCI	STOP VALVE FAILS TO OPEN COMPLETELY AT BROWNS FERRY 1#	156211 P 56
	#	HPCI	STOP VALVE FAILS TO STAY OPEN AT BROWNS FERRY 1#	153490 P 46
	#	HPCI	STOP VALVE STEM FAILS AT COOPER#	155604 P242
	#	HPCI	STUCK ON HIGH SPEED AT QUAD CITIES 2#	159526 P558
	#	HPCI	SUCTION LINE ISOLATION VALVE LEAKS AT DRESDEN 3#	157081 P230
HATCH 2#	#	HPCI	SUPPRESSION CHAMBER SUCTION VALVE FAILS TO OPEN AT	159317 P390
BRUNSWICK 1#	#MANUAL VALVE ON	HPCI	SUPPRESSION POOL SUCTION LINE FOUND CLOSED AT	159519 P132
	#	HPCI	SYSTEM INOPERABLE AT COOPER#	160052 P295
	#	HPCI	SYSTEM INOPERABLE AT HATCH 1#	160493 P340
	#	HPCI	SYSTEM NOT OPERABLE WHEN REQUIRED AT HATCH 1#	156091 P389
#CABLE SEPARATION FOUND TO BE INADEQUATE FOR ADS AND		HPCI	SYSTEMS AT PILGRIM 1#	154691 P803
#RTGB CONTROL SWITCH FOR		HPCI	TORUS SUCTION VALVE FAILS AT BRUNSWICK 1#	155397 P132
	#	HPCI	TRIPS DURING A TEST AT BRUNSWICK 1#	154511 P122
#SET POINT DRIFT IN		HPCI	TURBINE AREA HIGH TEMPERATURE SWITCH AT QUAD CITIES 1#	160481 P547
	#	HPCI	TURBINE CONTROL VALVE FAILS TO OPEN AT BRUNSWICK 2#	160083 P188
FERRY 1#	#CRACK FOUND IN	HPCI	TURBINE COUPLING BEARING SUPPORT PEDESTAL AT BROWNS	155292 P 50
FERRY 2#	#CRACK DISCOVERED IN	HPCI	TURBINE COUPLING BEARING SUPPORT PEDESTAL AT BROWNS	158489 P 60
	#	HPCI	TURBINE DOES NOT REACH RATED SPEED AT DUANE ARNOLD#	160275 P 10
MONTICELLO#	#LEAK RATE OF	HPCI	TURBINE EXHAUST CHECK VALVE EXCEEDS LIMIT AT	156239 P429
#MULTIPLE		HPCI	TURBINE EXHAUST LINE SNUBBER FAILURES AT PILGRIM 1#	160187 P822
	#	HPCI	TURBINE FAILS TO REACH RATED SPEED AT VERMONT YANKEE#	154181 P870
	#	HPCI	TURBINE FAILS TO TRIP ON OVERSPEED AT HATCH 1#	159434 P332
#SET POINT DRIFT IN		HPCI	TURBINE PRESSURE SWITCH AT HATCH 2#	160519 P399
	#	HPCI	TURBINE REVERSING CHAMBERS CRACK AT DUANE ARNOLD#	156029 P 28
	#	HPCI	TURBINE RUPTURE DISC FAILS AT BROWNS FERRY 2#	159348 P 91
	#	HPCI	TURBINE SPEED SWINGS AT HATCH 1#	158790 P319
	#	HPCI	TURBINE TRIPS AT BROWNS FERRY 1#	157033 P 57
	#	HPCI	TURBINE TRIPS DURING TESTING AT BROWNS FERRY 2#	156017 P 66
	#	HPCI	TURBINE TRIPS DURING TESTING AT VERMONT YANKEE#	154875 P866
	#	HPCI	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3#	161755 P580
	#	HPCI	VALVE FAILS TO OPERATE AT BROWNS FERRY 1#	160179 P 67
	#	HPCI	VALVE FAILS TO OPERATE AT DRESDEN 2#	157696 P813
	#	HPCI	VALVE FAILS TO OPERATE AT DRESDEN 3#	157686 P813
	#	HPCI	VALVE INOPERABLE AT QUAD CITIES 2#	161801 P543
HATCH 2#	#RPS.	HPCI,	RCIC, AND CS PRESSURE SWITCHES SETPOINTS DRIFT AT	159591 P386
#SCREEN WASH PUMP PIPING LEAKS AT		HUMBOLDT BAY 3#		163387 P411
#SCREEN WASH PUMP DISCHARGE VALVE LEAKS AT		HUMBOLDT BAY 3#		160846 P411
#UNIT 1 TRIP TEST NOT PERFORMED WHEN REQUIRED AT		HUMBOLDT BAY#		158480 P410
#SUPPRESSION POOL COOLER PUMP LOSES POWER AT		HUMBOLDT BAY#		160292 P410
#SCREEN WASH PUMP MOTOR OVERHEATS AT		HUMBOLDT BAY#		159637 P411
#DIESEL FIRE PUMP INOPERABLE AT		HUMBOLDT BAY#		163008 P412
#REACTOR BUILDING		HVAC ROOM SPRINKLER SYSTEM INOPERABLE AT HATCH 1#		162058 P348
#FIRE		HYDRANT FAILS TO OPEN AT COOPER#		159266 P283
	#	HYDRANT HOSE HOUSE LOST AT PILGRIM 1#		156036 P506
7#	#	HYDRAULIC ACCUMULATOR AIR VALVE BROKEN OFF AT BROWNS FERRY		161621 P119

FITZPATRICK•	#CRD	HYDRAULIC CONTROL UNIT INSTRUMENT READINGS DRIFT AT	150226 P288
#LOW DIESEL GENERATOR GOVERNOR		HYDRAULIC OIL LEVEL FOUND AT DUANE ARNOLD•	150616 P 9
MONTICELLO•	#CONTROL ROD DRIVE	HYDRAULIC PIPE SUPPORTS FAIL TO MEET STRESS LIMITS AT	156139 P433
	#	HYDRAULIC SNUBBER FAILS AT HATCH 2•	156299 P364
	#	HYDRAULIC SNUBBER FAILS TO LOCK AT OYSTER CREEK•	160235 P461
	#	HYDRAULIC SNUBBER FOUND INOPERABLE AT FITZPATRICK•	154652 P268
	#	HYDRAULIC SNUBBERS FAIL TEST AT FITZPATRICK•	160203 P286
#DRYWELL OXYGEN-		HYDROGEN ANALYSIS INDICATES LOW AT HATCH 2•	156116 P355
#DRYWELL OXYGEN-		HYDROGEN ANALYZER FAILS AT HATCH 2•	156144 P355
#OFF-GAS		HYDROGEN ANALYZERS NOT TESTED ON TIME AT MILLSTONE 1•	161679 P426
#CONTAINMENT		HYDROGEN AND OXYGEN ANALYZER FAILS AT HATCH 1•	156972 P311
#TORUS		HYDROGEN MONITOR ANNUNCIATES SPURIOUSLY AT BROWNS FERRY 1•	160305 P 71
	#	HYDROGEN MONITOR FAILS TO CALIBRATE AT BROWNS FERRY 3•	160330 P116
#DRYWELL		HYDROGEN MONITORS FAIL TO CALIBRATE AT BROWNS FERRY 2•	160213 P 93
#DRYWELL		HYDROGEN OXYGEN ANALYZER GIVES FALSE READINGS AT HATCH 2•	159110 P393
#CONTAINMENT		HYDROGEN OXYGEN ANALYZER INOPERABLE AT HATCH 2•	159376 P395
#CONTAINMENT		HYDROGEN OXYGEN ANALYZER INOPERABLE AT HATCH 2•	160040 P397
#UPDATE ON CONTAINMENT		HYDROGEN OXYGEN ANALYZERS AT HATCH 2•	143426 P369
#DRYWELL AND TORUS		HYDROGEN OXYGEN RECORDER INOPERABLE AT HATCH 1•	159290 P333
#DRYWELL		HYDROGEN OXYGEN RECORDER READS ABNORMALLY AT HATCH 1•	159510 P325
HATCH 2•	#	HYDROGEN RECOMBINER RETURN VALVE LEAKAGE UNACCEPTABLE AT	155449 P358
	#	HYDROGEN RECOMBINER SHEATH TEMPERATURE LOW AT HATCH 2•	154944 P350
	#	HYDROGEN RECOMBINER SYSTEM FAILS TO OPERATE AT HATCH 2•	157161 P377
#CONTAINMENT		HYDROGEN RECOMBINER TEST NOT PERFORMED PROPERLY AT HATCH 2•	156855 P375
#OFFGAS		HYDROGEN SAMPLE PUMP TRIPS AT HATCH 1•	159442 P334
#DRYWELL		HYDROGEN SENSOR FAILS TO CALIBRATE AT BROWNS FERRY 3•	161935 P121
#UPDATE ON		HYDROGEN SENSOR QUALIFICATIONS AT BROWNS FERRY 1, 2 AND 3•	163568 P 61
#DRYWELL		HYDROGEN-OXYGEN ANALYZER FAILS AT HATCH 2•	156857 P375
#DRYWELL		HYDROGEN-OXYGEN ANALYZER PUMP DIAPHRAGM FAILS AT HATCH 2•	156858 P374
#DRYWELL		HYDROGEN-OXYGEN ANALYZER READING IN ERROR AT HATCH 1•	155454 P359

#DG FAILS TO TRIP TO		IDLE SPEED FROM LOAD AT BROWNS FERRY 3•	160216 P116
#ROD BLOCK MONITOR PANEL		ILLUMINATES SPURIOUSLY AT BRUNSWICK 1•	159160 P138
#SECTION OF A SPLIT RING FOUND IN THE MAIN HPCI PUMP		IMPELLER AT ARNOLD•	156226 P 6
PIPING AT BROWNS FERRY 1•	#WATER	IMPINGEMENT FROM RECIRC LINE BREAK MIGHT DAMAGE RCCW	155207 P 53
#SMOKE DETECTORS INSTALLED		IMPROPERLY AT HATCH 1 AND 2•	162087 P346
CREEK•	#	IMPROPERLY INSTALLED PIPE SNUBBERS DISCOVERED AT OYSTER	155601 P452
CREEK•	#	IMPROPERLY INSTALLED PIPE SUPPORTS DISCOVERED AT OYSTER	155474 P453
#THREE		INACCESSIBLE SNUBBERS FOUND INOPERABLE AT BRUNSWICK 1•	154513 P122
#CRD PIPING SUPPORTS		INADEQUATE AT BRUNSWICK 1•	160110 P149
#CRD PIPING SUPPORTS		INADEQUATE AT BRUNSWICK 2•	160112 P183
#INTEGRITY OF A FIRE STOP		INADEQUATE AT DRESDEN 2•	153948 P207
#DIESEL FIRE PUMP FLOW		INADEQUATE AT PILGRIM 1•	161907 P435
#TWO SEISMIC SUPPORTS MAY BE		INADEQUATE AT VERMONT YANKEE•	155671 P370
HATCH 1•	#	INADEQUATE FIRE PROTECTION PIPE SUPPORTS INSTALLED AT	162748 P344
#CABLE SEPARATION FOUND TO BE		INADEQUATE FOR ADS AND HPCI SYSTEMS AT PILGRIM 1•	154691 P503
AT FITZPATRICK•	#	INADEQUATE PIPE HANGERS IN TORUS COOLING LOOP DISCOVERED	156196 P274
	#	INADEQUATE PIPE SUPPORTS FOUND ON RHR SYSTEM AT HATCH 1•	159614 P328
#SERVICE WATER LINE		INADEQUATELY SUPPORTED AT HATCH 2•	160511 P308
#STANDBY LIQUID CONTROL PUMP BREAKER TRIPS		INADVERTENTLY AT BROWNS FERRY 3•	161936 P121
#RHR MINIMUM FLOW VALVES CLOSED		INADVERTENTLY AT HATCH 1•	159580 P322
#LEVEL INDICATING SWITCH ISOLATED		INADVERTENTLY AT VERMONT YANKEE•	161627 P380
#AIR SUPPLY VALVE TO ISOLATION VALVE		INADVERTENTLY CLOSED AT PEACH BOTTOM 2•	161974 P406
#FIRE ALARM		INADVERTENTLY GOES OFF AT PILGRIM 1•	154899 P505
#FIRE ALARM		INADVERTENTLY TRIPS AT PILGRIM 1•	155395 P501
#FEEDWATER		INBOARD CHECK VALVE LEAK RATE EXCEEDS LIMIT AT DRESDEN 3•	159518 P227
#RHR		INBOARD INJECTION VALVE FAILS TO OPEN AT HATCH 1•	159314 P338
#REFUELING ZONE		INBOARD ISOLATION TIME DELAY RELAY FAILS AT BROWNS FERRY 2•	161068 P 96
#LPCI		INBOARD ISOLATION VALVE LEAKS AT HATCH 1•	160289 P315
	#	INBOARD MSIV LEAKAGE CONTROL SYSTEM INOPERABLE AT HATCH 2•	159373 P305
•	#	INBOARD THROTTLE ISOLATION VALVE FAILS TO OPERATE AT COOPER	159465 P250
#SUPPRESSION POOL COOLING		INBOARD THROTTLE VALVE FAILS AT COOPER•	159267 P253
#LEAK RATE OF		INBOUND MSIV EXCEEDS LIMIT AT MONTICELLO•	156249 P432
#TRAVERSING		INCORE PROBE FAILS TO WITHDRAW AT PEACH BOTTOM 3•	155585 P489
#TRAVERSING		INCORE PROBE POSITION INDICATION FAILS AT BRUNSWICK 2•	162736 P202
#REACTOR LOW WATER LEVEL SWITCH SETPOINT		INCORRECT AT BROWNS FERRY 2•	159688 P 90
#REACTOR LOW WATER LEVEL SWITCH SETPOINT IS		INCORRECT AT BRUNSWICK 2•	159356 P184
#CONTROL ROD POSITION INDICATION		INCORRECT AT BRUNSWICK 2•	161626 P198
#APR MONITOR SETPOINT		INCORRECT AT FITZPATRICK•	160228 P287
#HPCI AND RCIC STEAM PRESSURE SWITCH SETPOINTS		INCORRECT AT FITZPATRICK•	159576 P288
#ADS TIMER SETPOINT IS		INCORRECT AT FITZPATRICK•	159573 P289
#REACTOR HIGH PRESSURE SWITCH SET POINT		INCORRECT AT HATCH 2•	159305 P394
#PRESSURE RELIEF SET POINT		INCORRECT FOR CORE SPRAY AT OYSTER CREEK•	160257 P487
INSTALLED AT BROWNS FERRY 1•	#	INCORRECT HPCI STEAM LINE SPARE TEMPERATURE SWITCH	157030 P 58
#INTERMEDIATE RANGE MONITOR GIVES		INCORRECT READING AT FITZPATRICK•	160341 P284
#ELECTRONIC DRIFT CAUSES		INCORRECT ROD BLOCK TRIP AT DRESDEN 2•	157096 P232
1•	#	INCORRECT SET POINT FOUND IN REACTOR LEVEL SWITCH AT HATCH	161951 P341
FERRY 2•	#	INCORRECT SET POINT IN REACTOR LEVEL SWITCH AT BROWNS	161806 P 99
#MALPHGR LIMITS CALCULATED		INCORRECTLY AT BROWNS FERRY 3•	159352 P113
#MAXIMUM TOTAL PEAKING FACTOR CALCULATION		INCORRECTLY AT BRUNSWICK 1•	159210 P149
#CONTROL ROD DRIVE ACCUMULATOR PRESSURE SWITCHES SET		INCORRECTLY AT HATCH 2•	157131 P361
#RPS INPUT SWITCH CALIBRATED		INCORRECTLY AT PEACH BOTTOM 3•	160294 P493
#INITIATION SWITCHES FOR ISOLATION CONDENSER		INCORRECTLY SET AT OYSTER CREEK•	160256 P488
#CONTROL ROD		INCORRECTLY WITHDRAWN AT COOPER•	158686 P248

#CONTAINMENT ATMOSPHERIC MONITOR HAS A STEP	INCREASE AT BRUNSWICK 1#	154676 P127
#LPCI	INDEPENDENT POWER SUPPLY INVERTER TRIPS AT FITZPATRICK#	163463 P278
#TORUS WATER LEVEL SENSOR FAILS TO	INDICATE ACTUAL LEVEL AT FITZPATRICK#	159104 P286
#MAIN STEAM ISOLATION VALVES CLOSE TOO FAST AND FAIL TO	INDICATE CLOSED AT QUAD CITIES 2#	160838 P359
#REACTOR WATER SAMPLES	INDICATE HIGH CHLORIDE CONCENTRATION AT FITZPATRICK#	155291 P272
#MAIN STEAM LINE TEMPERATURE MONITORS	INDICATE LOW AT PEACH BOTTOM 2#	153477 P274
#CONTAINMENT VACUUM BREAKER LIGHTS FAIL TO	INDICATE OPEN AT HATCH 2.#	154619 P367
#CONTAINMENT ISOLATION VALVE FAILS TO	INDICATE POSITION AT BRUNSWICK 2#	161684 P196
#DRIFTING LPRM CAUSES	INDICATED HIGH THERMAL LIMIT AT FITZPATRICK#	155418 P273
#	INDICATED TEMPERATURE ACROSS CONDENSER EXCEEDS LIMIT AT	154467 P439
NINE MILE POINT 1#		
#ONE POINT OF CHLORIDE INTRUSION MONITOR	INDICATES DOWNSCALE AT BRUNSWICK 1#	153732 P127
#FISSION PRODUCT IODINE MONITOR	INDICATES HIGH AT HATCH 2#	154624 P346
#CONTAINMENT ATMOSPHERIC MONITOR	INDICATES LOW AT BRUNSWICK 1#	154514 P126
#DRYWELL OXYGEN-HYDROGEN ANALYSIS	INDICATES LOW AT HATCH 2#	156116 P355
#RCIC FLOW INDICATOR	INDICATES NO FLOW AT BRUNSWICK 2#	160867 P188
#VACUUM BREAKER VALVE	INDICATING LIGHT FAILS OFF AT HATCH 1#	160267 P332
#LEVEL	INDICATING SWITCH FAILS TO OPERATE AT BROWNS FERRY 3#	157715 P107
#LEVEL	INDICATING SWITCH ISOLATED INADVERTENTLY AT VERMONT YANKEE#	161627 P580
#	INDICATING VALVES ON THE FIRE PROTECTION SYSTEM FAILED AT	160283 P459
OYSER CREEK#		
#UPDATE REPORT ON LOST WIND DIRECTION	INDICATION AT BROWNS FERRY 1, 2 AND 3#	161088 P 78
#SOURCE RANGE MONITORS FAIL TO MOVE AND GIVE UNUSUAL	INDICATION AT BRUNSWICK 2#	158688 P179
#TORUS TO DRYWELL VACUUM BREAKER FAILS TO GIVE OPEN	INDICATION AT DRESDEN 2#	160266 P214
#CONTROL ROD POSITION	INDICATION FAILS AT BRUNSWICK 1#	156175 P138
#CONTROL ROD POSITION	INDICATION FAILS AT BRUNSWICK 1#	160304 P141
#CONTROL ROD POSITION	INDICATION FAILS AT BRUNSWICK 1#	161687 P198
#TRAVERSING INCORE PROBE POSITION	INDICATION FAILS AT BRUNSWICK 2#	162706 P202
#CONTROL ROD POSITION	INDICATION FAILS AT DRESDEN 2#	159647 P216
#CONTROL ROD HAS NO POSITION	INDICATION FOR ONE NOTCH AT BRUNSWICK 1#	153731 P128
#CONTROL ROD HAS NO POSITION	INDICATION FOR ONE NOTCH AT BRUNSWICK 2#	153735 P165
#LINEAR	INDICATION FOUND IN REACTOR WATER CLEAN-UP SYSTEM WELD AT	154618 P 48
BROWNS FERRY 1,#		
#LINEAR	INDICATION FOUND ON RCCIRC PUMP REDUCING INSERT WELD AT	158407 P171
BRUNSWICK 2#		
#ABNORMAL	INDICATION FROM CONTAINMENT ATMOSPHERIC MONITOR AT	157085 P134
BRUNSWICK 1#		
#CONTROL ROD POSITION	INDICATION INCORRECT AT BRUNSWICK 2#	161626 P198
#RCIC VALVE POSITION	INDICATION LOST AT BROWNS FERRY 1#	160905 P 76
#CONTROL ROD POSITION	INDICATION LOST AT DRESDEN 2#	160956 P220
#CONTROL ROD POSITION	INDICATION LOST AT DRESDEN 3#	160925 P220
#ALL ROD POSITION	INDICATION LOST AT VERMONT YANKEE#	154604 P567
#WRONG	INDICATION ON STARTUP RANGE RECORDER AT FITZPATRICK#	156667 P282
#ABNORMAL	INDICATION ON TORUS LEVEL RECORDER AT BRUNSWICK 2#	154983 P169
#BATTERY VOLTAGE	INDICATION READS LOW AT BRUNSWICK 1#	159138 P180
#REACTOR WATER LEVEL	INDICATION SWITCH FAILS AT BRUNSWICK 2#	160048 P186
#UPDATE REPORT ON REACTOR CLEAN-UP SYSTEM PIPING	INDICATIONS AT BIG ROCK POINT#	153976 P 29
#CONTAINMENT OXYGEN ANALYZER GIVES ERRATIC	INDICATIONS AT BRUNSWICK 1#	158661 P145
#CONTROL ROD POSITION	INDICATIONS FAIL AT BRUNSWICK 2#	160146 P182
#LINEAR	INDICATIONS FOUND IN CORE SPRAY SPARGERS AT PILGRIM 1#	155211 P804
#PRELIMINARY REPORT ON LINEAR	INDICATIONS IN REACTOR CLEANUP PIPE AT VERMONT YANKEE#	160828 P579
#TWO CONTROL ROD POSITION	INDICATIONS LOST AT BRUNSWICK 1#	163506 P187
#WIND DIRECTION	INDICATOR FAILS AT BROWNS FERRY 1#	160226 P 76
#CONTROL ROD POSITION	INDICATOR FAILS AT BRUNSWICK 1#	158660 P144
#REMOTE SHUTDOWN PANEL RHR FLOW	INDICATOR FAILS AT BRUNSWICK 1#	163394 P153
#DRYWELL VACUUM BREAKER POSITION	INDICATOR FAILS AT HATCH 1#	159486 P336
#RSL LEAKAGE CONTROL FLOW	INDICATOR FAILS AT HATCH 2#	159893 P385
#TORUS WATER LEVEL	INDICATOR FAILS AT PILGRIM 1#	161937 P535
#DRYWELL OXYGEN CONCENTRATION	INDICATOR FAILS DOWNSCALE AT DRESDEN 2#	159531 P215
#DRYWELL TO TORUS DIFFERENTIAL PRESSURE	INDICATOR FAILS TO OPERATE AT BROWNS FERRY 2#	154439 P 79
#UPDATE ON RCIC FLOW	INDICATOR FAILURE AT BRUNSWICK 2#	161968 P189
#RHR FLOW	INDICATOR GIVES FALSE READINGS AT BRUNSWICK 1#	160159 P182
#RCIC FLOW	INDICATOR INDICATES NO FLOW AT BRUNSWICK 2#	160867 P188
#CONTROL ROD POSITION	INDICATOR LIGHT FAILS TO LIGHT AT BRUNSWICK 1#	154712 P128
#RHR FLOW	INDICATOR ON REMOTE SHUTDOWN PANEL FAILS AT BRUNSWICK 1#	158665 P144
#DRYWELL PRESSURE	INDICATOR READS HIGH AT BRUNSWICK 1#	154730 P123
#SUPPRESSION POOL LEVEL	INDICATOR READS HIGH OFFSCALE AT BRUNSWICK 2#	155834 P168
#PRESSURE	INDICATOR SWITCH FAILS AT BIG ROCK POINT#	160291 P 38
#TORUS AND DRYWELL TEMPERATURE SENSORS CONNECTED TO WRONG	INDICATORS AT HATCH 2#	156983 P385
#SET POINT DRIFT IN CONTROL ROD DRIVE ACCUMULATOR PRESSURE	INDICATORS AT HATCH 2#	158644 P378
#CONTROL ROD POSITION	INDICATORS FAIL AT BRUNSWICK 1#	159197 P146
#CONTROL ROD POSITION	INDICATORS FAIL AT BRUNSWICK 1#	160108 P149
#JET PUMP DIFFERENTIAL PRESSURE	INDICATORS FAIL AT FITZPATRICK#	157060 P278
#CONTAINMENT NOT	INERTED IN TIME AT COOPER#	163552 P289
#CAD STORAGE TANK LEVEL DROPS BELOW LIMIT DURING	INERTING AT BRUNSWICK 2#	156110 P175
#APRM FAILS TO	INITIATE ROD BLOCK AT DRESDEN 3#	159833 P238
#SPURIOUS HPCI	INITIATION OCCURS AT HATCH 1#	156997 P318
#	INITIATION SWITCHES FOR ISOLATION CONDENSER INCORRECTLY	160256 P458
SET AT OYSTER CREEK#		
#HPCI FAILS TO	INJECT FOLLOWING SCRAM AT HATCH 1#	163478 P329
#RCIC FAILS TO	INJECT INTO REACTOR VESSEL AT HATCH 1#	158688 P327
#LPCI	INJECTION VALVE FAILED TO OPEN AT PEACH BOTTOM 3#	160140 P497
#RHR	INJECTION VALVE FAILS TO CLOSE AT BROWNS FERRY 1#	156014 P 56
#RCIC	INJECTION VALVE FAILS TO OPEN AT BRUNSWICK 2#	160525 P187
#LPCI	INJECTION VALVE FAILS TO OPEN AT DRESDEN 3#	156007 P328
#RHR INBOARD	INJECTION VALVE FAILS TO OPEN AT HATCH 1#	159314 P335
#HPCI	INJECTION VALVE FAILS TO OPEN AT HATCH 2#	159157 P387
#LPCI	INJECTION VALVE FAILS TO OPEN AT PEACH BOTTOM 3#	155416 P490
#LPCI	INJECTION VALVE FAILS TO OPEN AT PEACH BOTTOM 3#	156969 P493
#THREE HPCI	INJECTIONS AT HATCH 2#	163886 P409
#HPCI	INJECTS INTO REACTOR VESSEL TWICE AT HATCH 2#	159858 P409
#REACTOR BUILDING TO TORUS VACUUM BREAKER	INLET PIPE COVERED AT OYSTER CREEK#	158779 P489
#REACTOR CORE ISOLATION COOLANT LEAK DETECTION SYSTEM	INOPERATIVE AT HATCH 2#	158948 P376

#BOTH CORE SPRAY SPARGER BREAK DETECTION ALARM SYSTEMS	INOPERABLE AT ARNOLD#	154710 P 1
#REACTOR DEPRESSURIZATION SYSTEM	INOPERABLE AT BIG ROCK POINT#	159288 P 38
#RDS SENSOR CHANNEL	INOPERABLE AT BIG ROCK POINT#	159237 P 39
#HPCI REACTOR HIGH WATER LEVEL TRIP	INOPERABLE AT BROWNS FERRY 1#	156011 P 55
#SEISMIC MONITOR	INOPERABLE AT BROWNS FERRY 1#	160516 P 73
#17 SCRAM ACCUMULATOR LEVEL SWITCHES	INOPERABLE AT BROWNS FERRY 2#	160927 P 95
#THREE INTERMEDIATE RANGE MONITORS	INOPERABLE AT BROWNS FERRY 2#	161833 P 98
#SCRAM DISCHARGE VOLUME LEVEL SWITCH	INOPERABLE AT BROWNS FERRY 2#	161864 P 99
#RHR VALVE FOUND	INOPERABLE AT BROWNS FERRY 2#	155341 P104
#DIESEL GENERATOR LUBE OIL PUMP	INOPERABLE AT BROWNS FERRY 2#	161883 P117
#CORE SPRAY COOLER	INOPERABLE AT BROWNS FERRY 2#	161619 P120
#THREE INACCESSIBLE SNUBBERS FOUND	INOPERABLE AT BRUNSWICK 1#	154513 P122
#TWO SERVICE WATER SYSTEM SNUBBERS	INOPERABLE AT BRUNSWICK 1#	154508 P126
#LPCI	INOPERABLE AT BRUNSWICK 1#	1.0201 P140
#CAC MONITORS	INOPERABLE AT BRUNSWICK 1#	160407 P132
#CONTAINMENT OXYGEN ANALYZER	INOPERABLE AT BRUNSWICK 1#	161650 P134
#CONTAINMENT ATMOSPHERIC MONITOR	INOPERABLE AT BRUNSWICK 2#	154733 P162
#BOTH LPCI LOOPS	INOPERABLE AT BRUNSWICK 2#	155576 P163
#SERVICE WATER DISCHARGE LINE SNUBBER FOUND	INOPERABLE AT BRUNSWICK 2#	159320 P164
#THREE SNUBBERS FOUND	INOPERABLE AT BRUNSWICK 2#	159404 P175
#REACTOR BUILDING EXHAUST VENTILATION RADIATION MONITOR	INOPERABLE AT BRUNSWICK 2#	161977 P181
#RPS TRIP CHANNEL	INOPERABLE AT BRUNSWICK 2#	159451 P183
#CONTAINMENT OXYGEN ANALYZER	INOPERABLE AT BRUNSWICK 2#	160873 P191
#UPDATE ON RHR SERVICE WATER LOOP	INOPERABLE AT BRUNSWICK 2#	161984 P192
#TWO CONTROL ROD SELECT SWITCHES	INOPERABLE AT BRUNSWICK 2#	161651 P197
#CONTAINMENT ATMOSPHERE MONITOR	INOPERABLE AT BRUNSWICK 2#	161947 P198
#RCIC	INOPERABLE AT BRUNSWICK 2#	161972 P201
#RHR PUMP	INOPERABLE AT COOPER 1#	160091 P239
#HPCI AUXILIARY OIL PUMP FOUND	INOPERABLE AT COOPER#	153455 P242
#RHR SERVICE WATER BOOSTER PUMP	INOPERABLE AT COOPER#	159521 P248
#HPCI	INOPERABLE AT COOPER#	159478 P248
#HPCI	INOPERABLE AT COOPER#	159477 P249
#DRYWELL DRAIN SUMP FLOW INSTRUMENT	INOPERABLE AT COOPER#	159505 P252
#HPCI	INOPERABLE AT COOPER#	159291 P254
#HPCI SYSTEM	INOPERABLE AT COOPER#	160052 P255
#SNUBBER	INOPERABLE AT COOPER#	162525 P256
#RHR HEAT EXCHANGER	INOPERABLE AT COOPER#	162523 P258
#SHOCK SUPPRESSOR	INOPERABLE AT COOPER#	162520 P259
#CONTAINMENT VACUUM BREAKER	INOPERABLE AT DRESDEN 3#	160230 P234
#RCIC ISOLATION CONDENSER VALVE	INOPERABLE AT DRESDEN 3#	161457 P238
#CONDENSER VENT ISOLATION VALVE	INOPERABLE AT DRESDEN 2#	161643 P239
#RCIC	INOPERABLE AT DUANE ARNOLD#	160324 P 11
#CONTROL ROD BLOCK MONITOR	INOPERABLE AT DUANE ARNOLD#	159561 P 16
#CONTROL ROOM AIR TREATMENT SYSTEM	INOPERABLE AT DUANE ARNOLD#	159558 P 16
#RCIC	INOPERABLE AT DUANE ARNOLD#	160462 P 19
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#HYDRAULIC SNUBBER FOUND	INOPERABLE AT FITZPATRICK#	154652 P268
#PLANT STACK GAS MONITORING SYSTEM	INOPERABLE AT FITZPATRICK#	155523 P271
#INTERMEDIATE RANGE MONITOR MADE	INOPERABLE AT FITZPATRICK#	155307 P272
#BOTH DRYWELL ATMOSPHERE MONITORS	INOPERABLE AT FITZPATRICK#	155306 P272
#AVERAGE POWER RANGE MONITOR	INOPERABLE AT FITZPATRICK#	156955 P277
#DRYWELL SUMP INTEGRATOR AND FLOW RECORDER	INOPERABLE AT FITZPATRICK#	160882 P292
#RCIC	INOPERABLE AT FITZPATRICK#	161685 P292
#CARBON DIOXIDE FIRE PROTECTION SYSTEM	INOPERABLE AT FITZPATRICK#	161799 P293
#CONTAINMENT ISOLATION VALVE	INOPERABLE AT FITZPATRICK#	161768 P294
#RCIC FIRE DETECTION SYSTEM	INOPERABLE AT FITZPATRICK#	161992 P295
#HPCI FOUND	INOPERABLE AT HATCH 1#	159216 P304
#DIESEL GENERATOR MANUAL VOLTAGE REGULATOR	INOPERABLE AT HATCH 1#	156095 P309
#RHR SERVICE WATER LOOP	INOPERABLE AT HATCH 1#	159316 P331
#DRYWELL AND TORUS HYDROGEN OXYGEN RECORDER	INOPERABLE AT HATCH 1#	159290 P333
#CONTROL ROOM AIR INTAKE CHLORINE MONITOR	INOPERABLE AT HATCH 1#	159433 P333
#RHR	INOPERABLE AT HATCH 1#	159323 P334
#TORUS WATER LEVEL RECORDER	INOPERABLE AT HATCH 1#	159291 P334
#RHR LOOP	INOPERABLE AT HATCH 1#	159691 P337
#BOTH SERVICE WATER TRAINS	INOPERABLE AT HATCH 1#	159408 P338
#RHR Sw PUMP	INOPERABLE AT HATCH 1#	160145 P339
#CONTROL ROOM CHLORINE MONITOR FAN	INOPERABLE AT HATCH 1#	160810 P339
#HPCI SYSTEM	INOPERABLE AT HATCH 1#	160693 P340
#DRYWELL TEMPERATURE RECORDER	INOPERABLE AT HATCH 1#	162413 P344
#REACTOR BUILDING HVAC ROOM SPRINKLER SYSTEM	INOPERABLE AT HATCH 1#	162058 P345
#SPURIOUS AUTO ISOLATION SIGNAL MAKES HPCI	INOPERABLE AT HATCH 2#	156958 P374
#HPCI	INOPERABLE AT HATCH 2#	159620 P382
#HPCI	INOPERABLE AT HATCH 2#	159619 P383
#HPCI PUMP	INOPERABLE AT HATCH 2#	159992 P386
#STANDBY LIQUID CONTROL SYSTEM	INOPERABLE AT HATCH 2#	159670 P388
#HPCI	INOPERABLE AT HATCH 2#	159292 P390
#HPCI STEAM LINE DELTA P FLOW SWITCH	INOPERABLE AT HATCH 2#	159306 P391
#INBOARD MSIV LEAKAGE CONTROL SYSTEM	INOPERABLE AT HATCH 2#	159373 P395
#CONTAINMENT HYDROGEN OXYGEN ANALYZER	INOPERABLE AT HATCH 2#	159376 P395
#CONTAINMENT HYDROGEN OXYGEN ANALYZER	INOPERABLE AT HATCH 2#	160040 P397
#STANDBY SERVICE WATER PUMP	INOPERABLE AT HATCH 2#	161770 P402
#DIESEL FIRE PUMP	INOPERABLE AT HUMBOLDT BAY#	162008 P412
#OFF GAS RADIATION MONITORS	INOPERABLE AT MILLSTONE 1#	160233 P422
#REACTOR STARTED UP WITH ONE CORE SPRAY LOOP	INOPERABLE AT MONTICELLO#	158853 P434
#OFF GAS MONITORING SYSTEM	INOPERABLE AT NINE MILE POINT 1#	159513 P444
#CORE SPRAY SYSTEM	INOPERABLE AT OYSTER CREEK 1#	160902 P465

#TWO CONTROL ROD DRIVE PUMPS	INOPERABLE AT OYSTER CREEK#	162046 P468
#CORE SPRAY SYSTEM PUMPS	INOPERABLE AT OYSTER CREEK#	162045 P465
#DILUTION PUMPS	INOPERABLE AT OYSTER CREEK#	162062 P473
#REACTOR STARTED WITH OFF-GAS MONITORS	INOPERABLE AT PEACH BOTTOM 2#	154736 P476
#HPCI	INOPERABLE AT PEACH BOTTOM 2#	161638 P484
#MAIN STEAM BYPASS VALVE	INOPERABLE AT PEACH BOTTOM 2#	161618 P485
#RCIC	INOPERABLE AT PEACH BOTTOM 2#	161967 P485
#OFF GAS RADIATION MONITOR	INOPERABLE AT PEACH BOTTOM 2#	161909 P486
#HPCI	INOPERABLE AT PEACH BOTTOM 3#	162034 P500
#HPCI EXHAUST LINE SNUBBER	INOPERABLE AT PILGRIM 1#	153465 P501
#OXYGEN ISOLATION VALVES	INOPERABLE AT PILGRIM 1#	159563 P509
#CONTROL ROD BLOCK MONITOR	INOPERABLE AT PILGRIM 1#	159555 P511
#RCIC	INOPERABLE AT PILGRIM 1#	159551 P511
#STANDBY GAS TREATMENT SYSTEM	INOPERABLE AT PILGRIM 1#	159522 P517
#CONTAINMENT ISOLATION VALVES	INOPERABLE AT PILGRIM 1#	159363 P518
#DIESEL GENERATOR	INOPERABLE AT PILGRIM 1#	160078 P525
#DIESEL FIRE PUMP	INOPERABLE AT PILGRIM 1#	160083 P527
#COMPONENT COOLING WATER	INOPERABLE AT PILGRIM 1#	160532 P528
#SBGT SYSTEM	INOPERABLE AT PILGRIM 1#	160050 P528
#TWO FIRE DETECTION ALARMS	INOPERABLE AT PILGRIM 1#	161596 P530
#DRYWELL FLOOR SUMP PUMP FLOW INTEGRATOR	INOPERABLE AT PILGRIM 1#	160528 P530
#RCS LEAK DETECTION AIR SAMPLING SYSTEM	INOPERABLE AT PILGRIM 1#	160909 P530
#REACTOR BUILDING VENT SAMPLE PUMPS	INOPERABLE AT PILGRIM 1#	160910 P532
#CONTAINMENT VACUUM BREAKER	INOPERABLE AT PILGRIM 1#	162533 P536
#HPCI VALVE	INOPERABLE AT QUAD CITIES 2#	161861 P563
#RHR PUMP	INOPERABLE AT QUAD CITIES 2#	162032 P564
#DIESEL GENERATOR COOLING WATER PUMP MOTOR	INOPERABLE AT QUAD-CITIES 1#	161898 P569
#RCIC AND HPCI	INOPERABLE AT QUAD-CITIES 2#	161901 P562
#RHR LOGIC CIRCUIT	INOPERABLE AT QUAD-CITIES 2#	163335 P563
#HANGER FOUND DAMAGED AND	INOPERABLE AT VERMONT YANKEE#	153482 P564
#BOTH OFF GAS RADIATION MONITORS	INOPERABLE AT VERMONT YANKEE#	154600 P568
#CONTROL ROD POSITION SWITCH AND ROD BLOCK	INOPERABLE AT VERMONT YANKEE#	160895 P576
#CONTINUOUS AIR SAMPLING STATION	INOPERABLE AT VERMONT YANKEE#	162048 P581
#DIESEL GENERATOR	INOPERABLE DUE TO LOW AIR PRESSURE AT HATCH 1#	159508 P324
#CCW PUMPS	INOPERABLE DURING CHLORINATION AT BROWNS FERRY 2#	161491 P 97
#BOTH RHR ROOM COOLERS	INOPERABLE FOR FIFTEEN MINUTES AT BRUNSWICK 2#	155530 P175
#HPCI MADE	INOPERABLE FOR REPAIRS AT FITZPATRICK#	156074 P274
#RCIC SYSTEM	INOPERABLE FOR TURBINE BEARING INSPECTION AT FITZPATRICK#	154657 P268
#ABOUT HALF OF FIRE DETECTORS	INOPERABLE IN A ZONE AT BRUNSWICK 2#	155396 P204
BRUNSWICK 2# #	INOPERABLE PIPING SUPPORT NOT REPAIRED PRIOR TO STARTUP AT	153733 P169
#APRM REMAINS	INOPERABLE WHEN RETURNED TO SERVICE AT FITZPATRICK#	156220 P273
#APRM CHANNEL FAILS TO GO	INOPERABLE WITH LESS THAN 11 LPRM INPUTS AT HATCH 2#	155299 P353
#AVERAGE POWER RANGE MONITORS	INOPERATIVE AT BRUNSWICK 1#	159211 P147
#DRYWELL PRESSURE RECORDER	INOPERATIVE AT HATCH 1#	159589 P330
#RCIC MADE INOPERATIVE WITHOUT BEING DECLARED	INOPERATIVE AT HATCH 2#	155300 P353
#RCIC MADE	INOPERATIVE WITHOUT BEING DECLARED INOPERATIVE AT HATCH 2#	155300 P353
#RPS	INPUT SWITCH CALIBRATED INCORRECTLY AT PEACH BOTTOM 3#	160294 P493
#APRM CHANNEL FAILS TO GO INOPERABLE WITH LESS THAN 11 LPRM	INPUTS AT HATCH 2#	155299 P353
#72 OF 185 CONTROL RODS FAIL TO FULLY	INSERT AT BROWNS FERRY 3#	158291 P111
#UPDATE ON FAILURE OF 76 CONTROL RODS TO	INSERT AT BROWNS FERRY 2#	163405 P111
#CONTROL ROD FAILS TO	INSERT AT BROWNS FERRY 3#	154096 P103
#LINEAR INDICATION FOUND ON RECIRC PUMP REDUCING	INSERT WELD AT BRUNSWICK 2#	155407 P171
#FUEL ASSEMBLY LOADED INTO CELL WITHOUT CONTROL ROD	INSERTED AT ARNOLD#	156078 P 7
#CONTROL ROD	INSERTION TIME EXCEEDS LIMIT AT BRUNSWICK 2#	160513 P190
#FIRE PROTECTION SYSTEMS NOT	INSPECTED AT BROWNS FERRY 1#	160210 P 71
#RCIC SYSTEM INOPERABLE FOR TURBINE BEARING	INSPECTION AT FITZPATRICK#	154657 P268
#PIPE	INSPECTION NOT PERFORMED AT PILGRIM 1#	160530 P529
#RB CLOSED COOLING WATER PIPING SEISMIC RESTRAINTS NOT	INSTALLED AT BROWNS FERRY 1#	154610 P 48
#INCORRECT HPCI STEAM LINE SPARE TEMPERATURE SWITCH	INSTALLED AT BROWNS FERRY 1#	157030 P 59
#UNQUALIFIED CAM SYSTEM	INSTALLED AT BROWNS FERRY 1#	156945 P 61
#CONTROL ROD MOVED WITH SHORTING LINKS	INSTALLED AT BRUNSWICK 2#	163471 P172
#PSW SYSTEM SEISMIC PIPING SUPPORT NOT	INSTALLED AT HATCH 1#	160124 P337
#INADEQUATE FIRE PROTECTION PIPE SUPPORTS	INSTALLED AT HATCH 1#	162742 P344
#SMOKE DETECTORS	INSTALLED IMPROPERLY AT HATCH 1 AND 2#	162087 P344
#IMPROPERLY	INSTALLED PIPE SNUBBERS DISCOVERED AT OYSTER CREEK#	155601 P452
#IMPROPERLY	INSTALLED PIPE SUPPORTS DISCOVERED AT OYSTER CREEK#	155474 P453
#VALVE	INSTALLED WITHOUT DESIGN CHANGE APPROVAL AT LA CROSSE#	163466 P614
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#	INSTRUMENT AIR PIPE SUPPORT MISSING AT HATCH 1#	159605 P332
#LEAK RATE OF TORUS	INSTRUMENT AIR VALVE EXCEEDS LIMIT AT MONTICELLO#	156243 P431
#SET POINT DRIFT IN RCIC FLOW	INSTRUMENT AT HATCH 1#	154693 P298
#HPCI HIGH STEAM FLOW	INSTRUMENT FAILS DOWNSCALE AT COOPER#	154081 P341
#TORUS LEVEL	INSTRUMENT FAILS TO FUNCTION PROPERLY AT BRUNSWICK 1#	154816 P126
#DRYWELL DRAIN SUMP FLOW	INSTRUMENT INOPERABLE AT COOPER#	159505 P252
#REACTOR WATER CLEANUP SYSTEM	INSTRUMENT LINE LEAKS AT DRESDEN 2#	159439 P217
#	INSTRUMENT LINE SNUBBER FOUND OVER EXTENDED AT BRUNSWICK 1#	159444 P139
FITZPATRICK# #	INSTRUMENT MAINTENANCE PROCEDURE CHANGES NOT REVIEWED AT	160259 P283
#SEISMIC	INSTRUMENT NOT PROPERLY CALIBRATED AT HATCH 1#	159378 P346
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#TORUS WATER LEVEL	INSTRUMENT READS DOWNSCALE AT HATCH 2#	158207 P367
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1# #HPCI	INSTRUMENT SENSING LINE PIPE HANGERS BREAK AT BROWNS FERRY	155897 P 50
#SCRAM DISCHARGE VOLUME HIGH LEVEL	INSTRUMENT TEST NOT PERFORMED AT DUANE ARNOLD#	161926 P 25
#RHR FLOW	INSTRUMENTATION FAILS AT BRUNSWICK 2#	160367 P185
#APRM	INSTRUMENTS NOT TESTED AT FITZPATRICK#	159222 P285
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#SAFETY RELIEF VALVE SOLENOID	INSULATION DEGRADED AT BRUNSWICK 2*	159135 P180
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#DRYWELL SUMP	INTEGRATOR AND FLOW RECORDER INOPERABLE AT FITZPATRICK*	160082 P292
#DRYWELL FLOOR DRAIN FLOW	INTEGRATOR FAILS AT BRUNSWICK 1*	160211 P140
#DRYWELL FLOOR SUMP PUMP FLOW	INTEGRATOR INOPERABLE AT PILGRIM 1*	160528 P530
#DRYWELL EQUIPMENT DRAIN LEAKAGE	INTEGRATOR REQUIRES CALIBRATION AT BRUNSWICK 2*	163400 P203
#FIRE WALL	INTEGRITY BREACHED AT HATCH 2*	160441 P401
#SECONDARY CONTAINMENT	INTEGRITY CHECK FAILED AT BRUNSWICK 1*	159104 P140
#SECONDARY CONTAINMENT	INTEGRITY MOMENTARILY VIOLATED AT HATCH 1*	153739 P303
#SECONDARY CONTAINMENT	INTEGRITY MOMENTARILY VIOLATED AT HATCH 1*	156082 P308
#SECONDARY CONTAINMENT	INTEGRITY MOMENTARILY VIOLATED AT HATCH 1*	155410 P310
#	INTEGRITY OF A FIRE STOP INADEQUATE AT DRESDEN 2*	153948 P207
#CONTAINMENT PURGE OPERATED TOO LONG WHEN	INTEGRITY REQUIRED AT HATCH 2*	156052 P380
#SECONDARY CONTAINMENT	INTEGRITY VIOLATED AT BROWNS FERRY 2*	161824 P 96
#SECONDARY CONTAINMENT	INTEGRITY VIOLATED AT NINE MILE POINT 1*	159258 P445
#CONTAINMENT	INTEGRITY VIOLATED AT OYSTER CREEK*	160234 P461
#CONTAINMENT	INTEGRITY VIOLATED AT OYSTER CREEK*	161667 P467
#PRIMARY CONTAINMENT	INTEGRITY VIOLATED AT QUAD CITIES 1*	162089 P550
* #CONTAINMENT	INTEGRITY VIOLATED BY REMOVING MSIV INTERNALS AT MONTICELLO	156047 P431
#CONTAINMENT	INTEGRITY VIOLATED DURING REFUELING AT PEACH BOTTOM 2*	156973 P470
#CONTAINMENT AIR LOCK DOOR	INTERLOCK FAILS AT LACROSSE*	161388 P415
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	# INTERMEDIATE RANGE MONITORS DAMAGED AT BRUNSWICK 2*	156930 P177
	# INTERMEDIATE RANGE MONITORS FAIL AT BRUNSWICK 2*	158603 P176
#THREE	INTERMEDIATE RANGE MONITORS INOPERABLE AT BROWNS FERRY 2*	161833 P 98
#A RCD DRIFT ALARMS ANNUNCIATES	INTERMITTENTLY AT BRUNSWICK 1*	154957 P123
#EXCESS FLOW CHECK VALVE MISSING	INTERNALS AT BROWNS FERRY 2*	161452 P 96
#CONTAINMENT INTEGRITY VIOLATED BY REMOVING MSIV	INTERNALS AT MONTICELLO*	156047 P431
OPOWER FROM UNINTERRUPTABLE POWER SYSTEM	INTERRUPTED AT VERMONT YANKEE*	157081 P571
#DIESEL GENERATOR FAILS TO TIE	INTO BUS AT HATCH 2*	159312 P392
#DIESEL OIL SPILLED	INTO CANAL AT PEACH BOTTOM 2*	159483 P480
#FUEL ASSEMBLY LOADED	INTO CELL WITHOUT CONTROL ROD INSERTED AT ARNOLD*	156076 P 7
#TUBING GOING	INTO CONTAINMENT LACKS PROPER SUPPORT AT HATCH 1*	158788 P319
#FIRE BARRIER PENETRATION SEAL	INTO CONTROL ROOM BREACHED AT HATCH 2*	159304 P393
#SOURCE RANGE MONITORS FAIL TO DRIVE	INTO CORE AT BRUNSWICK 2*	159603 P179
#RCIC FAILS TO INJECT	INTO REACTOR VESSEL AT HATCH 1*	158645 P327
#HPCI INJECTS	INTO REACTOR VESSEL TWICE AT HATCH 2*	159050 P406
#ROD SEQUENCE CONTROL SYSTEM FAILS TO CONE	INTO SERVICE WHEN REQUIRED AT FITZPATRICK*	155525 P271
#ONE POINT OF CHLORIDE	INTRUSION MONITOR INDICATES DOWNSCALE AT BRUNSWICK 1*	153732 P127
#STEAM LEAK DETECTION LOGIC TOPAZ	INVERTER TRIPS AT BRUNSWICK 2*	155323 P165
#LPCI	INVERTER TRIPS AT FITZPATRICK 1*	160506 P291
#LPCI	INVERTER TRIPS AT FITZPATRICK*	154753 P269
#LPCI INDEPENDENT POWER SUPPLY	INVERTER TRIPS AT FITZPATRICK*	163463 P278
#MULTIPLE LPCI	INVERTER TRIPS AT FITZPATRICK*	160116 P290
#LPCI	INVERTER TRIPS AT HATCH 1*	159189 P330
#HPCI AUTOMATIC FLOW CONTROL POWER	INVERTER TRIPS AT HATCH 2*	153795 P349
#MILK SAMPLE	IODINE ACTIVITY EXCEEDS LIMIT AT BRUNSWICK 1*	162480 P159
#MILK SAMPLE	IODINE ACTIVITY EXCEEDS LIMIT AT FITZPATRICK*	163381 P296
#MILK SAMPLE	IODINE ACTIVITY EXCEEDS LIMIT AT NINE MILE POINT*	163383 P447
#FISSION PRODUCT	IODINE MONITOR INDICATES HIGH AT HATCH 2*	154624 P346
#	IODINE RELEASE RATE EXCEEDS LIMIT AT FITZPATRICK*	158622 P279
#RIVER WATER TRAVELING SCREEN FAILS WHILE REDUNDANT SYSTEM	IS FAILED AT DUANE ARNOLD*	159051 P 14
#TURBINE COMPARTMENT TEMPERATURE SWITCH SETPOINT	IS HIGH AT PILGRIM 1*	159242 P511
#APRM FLOW SIGNAL	IS HIGHER THAN ACTUAL FLOW AT BROWNS FERRY 2*	157042 P 86
#REACTOR LOW WATER LEVEL SWITCH SETPOINT	IS INCORRECT AT BRUNSWICK 2*	159356 P184
#ADS TIMER SETPOINT	IS INCORRECT AT FITZPATRICK*	159573 P289
#CRITICAL POWER RATIO	IS LESS THAN LIMIT AT BRUNSWICK 2*	155575 P166
#RECIRCULATION PUMP MOTOR OIL LEVEL	IS LOW AT DUANE ARNOLD*	160265 P 11
#RADWASTE PIPING	IS NOT SEISMICALLY PROTECTED AT HATCH 2*	160522 P399
#REACTOR LOW PRESSURE SWITCH	IS OUT OF CALIBRATION AT BRUNSWICK 2*	159690 P181
#DRYWELL PRESSURE SWITCH	IS OUT OF TOLERANCE AT BRUNSWICK 2*	159621 P181
#MAIN TURBINE CONTROL VALVE CLOSURE SWITCH RESPONSE TIME	IS SLOW AT BRUNSWICK 2*	159930 P176
#CORE MAXIMUM FRACTION OF LIMITING POWER DENSITY	IS TOO HIGH AT HATCH 2*	159618 P383
#HPCI FAILS TO	ISOLATE AT HATCH 2*	159307 P391
#ONE OF THREE RCS SAMPLING POINTS	ISOLATED AT DUANE ARNOLD*	160827 P 20
#AUTOMATIC PRESSURE RELIEF SYSTEM DRYWELL PRESSURE SENSOR	ISOLATED AT MILLSTONE 1*	156157 P421
#REACTOR PRESSURE BOUNDARY LEAK DETECTION MONITOR	ISOLATED AT PILGRIM 1*	158768 P513
#LEVEL INDICATING SWITCH	ISOLATED INADVERTENTLY AT VERMONT YANKEE*	161627 P580
#CONTAINMENT	ISOLATION BELLOWS APPEARS TO LEAK AT HATCH 2*	162417 P405
#VENTILATION SYSTEM	ISOLATION CHANNEL RELAYS FAILS AT BROWNS FERRY 1*	154919 P 49
#SET POINT DRIFT IN	ISOLATION CONDENSER CONDENSATE FLOW SWITCH AT DRESDEN 2*	159243 P215
#SET POINT DRIFT IN	ISOLATION CONDENSER FLOW SWITCH AT DRESDEN 2*	160002 P211
#INITIATION SWITCHES FOR	ISOLATION CONDENSER INCORRECTLY SET AT OYSTER CREEK*	160256 P458
#WATER HAMMER OCCURS IN	ISOLATION CONDENSER PIPING AT MILLSTONE 1*	153942 P419
#	ISOLATION CONDENSER REMOVED FROM SERVICE AT MILLSTONE 1*	154614 P420
#RCIC	ISOLATION CONDENSER VALVE INOPERABLE AT DRESDEN 3*	161457 P238

MATCH 2*	#REACTOR CORE	ISOLATION COOLANT LEAK DETECTION SYSTEM INOPERATIVE AT	156940 P376
	#CONTROL BUILDING	ISOLATION DAMPER FAILS TO CLOSE AT DUANE ARNOLD*	160457 P 18
	#CONTAINMENT VENTILATION EXHAUST FAN	ISOLATION DAMPER LEAKS AT LA CROSSE*	158307 P413
	#CONTAINMENT	ISOLATION NITROGEN VALVE FAILS TO CLOSE AT QUAD-CITIES 2*	159688 P388
	#SPURIOUS AUTO	ISOLATION SIGNAL MAKES HPCI INOPERABLE AT MATCH 2*	158988 P374
	#MAIN STEAM	ISOLATION SWITCHES FAIL TO OPERATE AT BROWNS FERRY 3*	158235 P106
#TIP FAILS TO WITHDRAW FROM THE CORE ON CONTAINMENT	#REFUELING ZONE INBOARD	ISOLATION TEST AT QUAD-CITIES 2*	156161 P384
	#GROUND FAULT OCCURS IN CONTAINMENT	ISOLATION TIME DELAY RELAY FAILS AT BROWNS FERRY 2*	161065 P 96
	#HPCI STEAM	ISOLATION VALVE AT FITZPATRICK*	158567 P270
	#RCIC TRIP AND THROTTLE VALVE CLOSES AND HPCI	ISOLATION VALVE CLOSES AT FITZPATRICK*	155517 P273
	#MAIN STEAM	ISOLATION VALVE CLOSES AT MATCH 2*	156957 P376
	#CONTAINMENT	ISOLATION VALVE CLOSES TOO FAST AT BROWNS FERRY 3*	160080 P116
	#RECIR LOOP SAMPLE	ISOLATION VALVE FAILS AT COOPER*	160094 P284
	#HPCI STEAM SUPPLY	ISOLATION VALVE FAILS AT MONTICELLO*	160374 P436
	#CONTAINMENT SPRAY	ISOLATION VALVE FAILS AT MONTICELLO*	159422 P436
	#REACTOR BUILDING AUTOMATIC	ISOLATION VALVE FAILS AT NINE MILE POINT 1*	158697 P441
	#REACTOR BUILDING VENTILATION SYSTEM	ISOLATION VALVE FAILS AT OYSTER CREEK*	157006 P455
	#MAIN STEAM	ISOLATION VALVE FAILS CLOSED AT QUAD CITIES 2*	155490 P382
	#DRYWELL SAMPLE	ISOLATION VALVE FAILS TO CLOSE AT BIG ROCK POINT*	161674 P 42
	#REACTOR WATER CLEAN-UP	ISOLATION VALVE FAILS TO CLOSE AT BROWNS FERRY 1*	158631 P 62
	---#RHR CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT BROWNS FERRY 3*	156965 P106
	#CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT FITZPATRICK*	158610 P277
	#PLANT SERVICE WATER	ISOLATION VALVE FAILS TO CLOSE AT FITZPATRICK*	160917 P293
	#RCIC STEAM SUPPLY LINE	ISOLATION VALVE FAILS TO CLOSE AT HATCH 2*	156108 P388
	#HPCI	ISOLATION VALVE FAILS TO CLOSE AT HATCH 2*	158643 P370
	#MAIN STEAM	ISOLATION VALVE FAILS TO CLOSE AT HATCH 2*	158656 P379
	#RCIC OUTBOARD	ISOLATION VALVE FAILS TO CLOSE AT HATCH 2*	158248 P380
	#DRYWELL SUMP	ISOLATION VALVE FAILS TO CLOSE AT HATCH 2*	159310 P394
	#MAIN STEAM SAMPLE LINE	ISOLATION VALVE FAILS TO CLOSE AT MONTICELLO*	161895 P438
	#FEEDWATER FLUSH	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3*	156597 P488
	#CONTAINMENT SPRAY OUTBOARD	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3*	153476 P489
	#CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3*	159095 P494
	#CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3*	160137 P495
	#CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3*	159450 P496
	#CONTAINMENT VENTILATION	ISOLATION VALVE FAILS TO CLOSE AT PEACH BOTTOM 3*	159440 P497
	#RCIC	ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1*	159365 P819
	#RCIC OUTBOARD	ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1*	159536 P819
	#MAIN STEAM LINE DRAIN	ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1*	159280 P820
	#NITROGEN PURGE SUPPLY	ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1*	160212 P826
	#CONTAINMENT	ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1*	160553 P832
	#MAIN STEAM	ISOLATION VALVE FAILS TO CLOSE AT QUAD CITIES 1*	158708 P844
	#CONTAINMENT MONITORING	ISOLATION VALVE FAILS TO CLOSE AT VERMONT YANKEE*	156869 P872
	#CONTAINMENT SUMP	ISOLATION VALVE FAILS TO CLOSE AT VERMONT YANKEE*	158722 P873
	#MAIN STEAM	ISOLATION VALVE FAILS TO CLOSE IN TIME AT COOPER*	163931 P260
	#REACTOR WATER CLEANUP SYSTEM	ISOLATION VALVE FAILS TO CLOSE IN TIME AT DUANE ARNOLD*	160855 P 20
	#NITROGEN PURGE	ISOLATION VALVE FAILS TO CLOSE IN TIME AT PILGRIM 1*	158840 P515
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#SUPPRESSION POOL	LEVEL EXCEEDS HIGH LIMIT AT BRUNSWICK 2#	155513	P173
#TORUS	LEVEL EXCEEDS LIMIT AT BRUNSWICK 2#	160514	P160
#DISCHARGE LIQUID EFFLUENT RADIATION	LEVEL EXCEEDS LIMIT AT BRUNSWICK 2#	161813	P200
#TORUS WATER	LEVEL EXCEEDS LIMIT AT DRESDEN 1#	156224	P205
#REACTOR LOW WATER	LEVEL EXCEEDS LIMIT AT FITZPATRICK#	155550	P269
#TORUS WATER	LEVEL FAILS TO ACTUATE AT BRUNSWICK 1#	160534	P155
#TORUS WATER	LEVEL FALLS BELOW LIMIT AT DUANE ARNOLD#	159215	P 13
#NITROGEN TANK	LEVEL FALLS BELOW LIMIT AT FITZPATRICK#	158604	P282
#LOW DIESEL GENERATOR GOVERNOR HYDRAULIC OIL	LEVEL FALLS BELOW LIMIT AT HATCH 1#	161950	P341
#LOW	LEVEL FOUND AT DUANE ARNOLD#	158616	P 9
#CC-60	LEVEL FOUND IN CONTAINMENT ATMOSPHERE DILUTION TANK AT	156928	P139
#	LEVEL IN SEDIMENT SAMPLE EXCEEDS REPORTING LEVEL AT	154648	P263
#	LEVEL INDICATING SWITCH FAILS TO OPERATE AT BROWNS FERRY 3#	157715	P107
#	LEVEL INDICATING SWITCH ISOLATED INADVERTENTLY AT VERMONT	161627	P580
#REACTOR WATER	LEVEL INDICATION SWITCH FAILS AT BRUNSWICK 2#	160045	P186
#TORUS WATER	LEVEL INDICATOR FAILS AT PILGRIM 1#	161937	P535
#SUPPRESSION POOL	LEVEL INDICATOR READS HIGH OFFSCALE AT BRUNSWICK 2#	155534	P168
#TORUS	LEVEL INSTRUMENT FAILS TO FUNCTION PROPERLY AT BRUNSWICK 1#	154516	P126
#TORUS WATER	LEVEL INSTRUMENT READS DOWNSCALE AT HATCH 2#	158297	P367
#SCRAM DISCHARGE VOLUME HIGH	LEVEL INSTRUMENT TEST NOT PERFORMED AT DUANE ARNOLD#	161926	P 25
#RECIRCULATION PUMP MOTOR OIL	LEVEL IS LOW AT DUANE ARNOLD#	160265	P 11
#SUPPRESSION POOL	LEVEL OUT OF LIMITS THREE TIMES AT QUAD CITIES 1#	153947	P537
#TORUS WATER	LEVEL PUMPED DOWN BELOW LIMIT AT DUANE ARNOLD#	163370	P 25
#ABNORMAL INDICATION ON TORUS	LEVEL RECORDER AT BRUNSWICK 2#	154883	P164
#TORUS WATER	LEVEL RECORDER INOPERABLE AT HATCH 1#	159291	P334
#SCRAM DISCHARGE VOLUME HIGH	LEVEL ROD WITHDRAWAL BLOCK SWITCH FAILS AT HATCH 2#	159159	P390
#SET POINT DRIFT IN LOW WATER	LEVEL SCRAM SWITCH AT MILLSTONE 1#	160923	P424
#SET POINT DRIFT IN REACTOR LOW WATER	LEVEL SENSOR AT OYSTER CREEK#	160148	P465
#TORUS WATER	LEVEL SENSOR FAILS TO INDICATE ACTUAL LEVEL AT FITZPATRICK#	159104	P286
POINT# #REACTOR WATER	LEVEL SENSOR REMOVED FROM SERVICE FOR VENTING AT BIG ROCK	160071	P 40
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#SET POINT DRIFT IN REACTOR WATER	LEVEL SENSORS AT OYSTER CREEK#	159672	P463
#LO LO LO REACTOR WATER	LEVEL SETPOINT RAISED AT NINE MILE POINT 1#	154932	P440
#SET POINT DRIFT IN REACTOR WATER	LEVEL SWITCH AT BROWNS FERRY 2#	155205	P 81
#INCORRECT SET POINT IN REACTOR	LEVEL SWITCH AT BROWNS FERRY 2#	161866	P 99
#SET POINT DRIFT IN REACTOR VESSEL SHROUD	LEVEL SWITCH AT BRUNSWICK 1#	154554	P124
#SET POINT DRIFT IN CONDENSATE STORAGE TANK	LEVEL SWITCH AT BRUNSWICK 1#	155565	P127
#SET POINT DRIFT IN REACTOR LOW WATER	LEVEL SWITCH AT BRUNSWICK 1#	160301	P139
#SET POINT DRIFT IN REACTOR LOW WATER	LEVEL SWITCH AT BRUNSWICK 1#	156932	P143
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#SET POINT DRIFT IN REACTOR LOW WATER	LEVEL SWITCH AT BRUNSWICK 2#	161652	P197
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#SET POINT DRIFT IN RPS	LEVEL SWITCH AT DRESDEN 3⊕	161460 P237
#SETPOINT DRIFT IN CONDENSATE STORAGE TANK	LEVEL SWITCH AT FITZPATRICK⊕	156197 P274
#INCORRECT SET POINT FOUND IN REACTOR	LEVEL SWITCH AT HATCH 1⊕	161951 P341
#SET POINT DRIFT IN REACTOR LOW WATER	LEVEL SWITCH AT QUAD CITIES 1⊕	156912 P543
#CONTROL ROD DRIVE ACCUMULATOR	LEVEL SWITCH FAILS AT BROWNS FERRY 1⊕	155296 P 49
#SCRAM DISCHARGE VOLUME HIGH	LEVEL SWITCH FAILS AT BROWNS FERRY 1⊕	158293 P 65
#REACTOR WATER	LEVEL SWITCH FAILS AT BRUNSWICK 1⊕	158545 P144
#CONDENSATE STORAGE TANK LOW	LEVEL SWITCH FAILS AT DUANE ARNOLD⊕	160029 P 19
#REACTOR WATER	LEVEL SWITCH FAILS AT HATCH 2⊕	158674 P382
#REACTOR WATER	LEVEL SWITCH FAILS AT HATCH 2⊕	158675 P382
#TORUS WATER	LEVEL SWITCH FAILS TO ACTUATE AT BRUNSWICK 2⊕	155572 P167
#CRD SCRAM ACCUMULATOR	LEVEL SWITCH FAILS TO OPERATE AT BROWNS FERRY 1⊕	155208 P 52
#REACTOR WATER	LEVEL SWITCH FAILS TO OPERATE AT BROWNS FERRY 2⊕	154438 P 80
#REACTOR LO LO LO	LEVEL SWITCH FAILS TO OPERATE PROPERLY AT FITZPATRICK⊕	155293 P269
#REACTOR LOW-LOW WATER	LEVEL SWITCH FAILS TO OPERATE PROPERLY AT QUAD CITIES 1⊕	155369 P540
#REACTOR LOW WATER	LEVEL SWITCH FAILS TO TRIP AT BRUNSWICK 1⊕	154080 P131
#SCRAM DISCHARGE VOLUME	LEVEL SWITCH INOPERABLE AT BROWNS FERRY 2⊕	161864 P 99
#DRIFT IN REACTOR WATER	LEVEL SWITCH SET POINT AT FITZPATRICK⊕	161717 P294
#REACTOR LOW WATER	LEVEL SWITCH SETPOINT INCORRECT AT BROWNS FERRY 2⊕	159685 P 90
#REACTOR LOW WATER	LEVEL SWITCH SETPOINT IS INCORRECT AT BRUNSWICK 2⊕	159356 P184
#REACTOR LOW WATER	LEVEL SWITCH STICKS CLOSED AT BRUNSWICK 2⊕	158732 P180
#REACTOR WATER	LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3⊕	158749 P232
#REACTOR WATER	LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3⊕	158750 P233
#DRIFT IN REACTOR LOW WATER	LEVEL SWITCHES AT BRUNSWICK 1⊕	163468 P157
#SET POINT DRIFT IN REACTOR LOW WATER	LEVEL SWITCHES AT BRUNSWICK 2⊕	161069 P182
#SET POINT DRIFT IN LOW REACTOR	LEVEL SWITCHES AT COOPER⊕	161622 P286
#SET POINT DRIFT IN REACTOR WATER	LEVEL SWITCHES AT FITZPATRICK⊕	163361 P295
#SET POINT DRIFT IN REACTOR LO-LO-LO WATER	LEVEL SWITCHES AT OYSTER CREEK 1⊕	161873 P466
#REACTOR WATER	LEVEL SWITCHES EXCEED SET POINT LIMIT AT PILGRIM 1⊕	160345 P521
#REACTOR WATER	LEVEL SWITCHES FAIL AT BROWNS FERRY 3⊕	158537 P107
#SCRAM DISCHARGE VOLUME HIGH	LEVEL SWITCHES FAIL AT HATCH 2⊕	159584 P301
#LIQUID	LEVEL SWITCHES FAIL TO OPERATE PROPERLY AT BROWNS FERRY 2⊕	155206 P 51
#17 SCRAM ACCUMULATOR	LEVEL SWITCHES INOPERABLE AT BROWNS FERRY 2⊕	160907 P 95
#REACTOR	LEVEL SWITCHES TRIP TOO LATE AT HATCH 2⊕	160518 P398
#NITROGEN STORAGE TANK	LEVEL TCO LOW AT HATCH 1⊕	159503 P324
#SET POINT DRIFT IN REACTOR	LEVEL TRANSMITTER AT BIG ROCK POINT⊕	157074 P 34
#SET POINT DRIFT IN REACTOR	LEVEL TRANSMITTER AT BIG ROCK POINT⊕	157076 P 35
#SET POINT DRIFT IN REACTOR WATER	LEVEL TRANSMITTER AT BIG ROCK POINT⊕	158777 P 37
#SET POINT DRIFT IN REACTOR	LEVEL TRANSMITTER AT BIG ROCK POINT⊕	160170 P 41
#FEEDWATER CONTROL	LEVEL TRANSMITTER FOUND OUT OF CALIBRATION AT FITZPATRICK⊕	156915 P277
#NARROW RANGE TORUS WATER	LEVEL TRANSMITTER OUT OF CALIBRATION AT HATCH 2⊕	154948 P368
#TORUS	LEVEL TRANSMITTER OUT OF TOLERANCE AT BRUNSWICK 1⊕	155559 P126
#HPCI REACTOR HIGH WATER	LEVEL TRIP INOPERABLE AT BROWNS FERRY 1⊕	156011 P 55
#SET POINT DRIFT IN RCIC REACTOR WATER	LEVEL TRIP SWITCH AT BROWNS FERRY 3⊕	159284 P113
#COBALT AND SILVER ACTIVITY	LEVELS EXCEED TEN TIMES CONTROL ACTIVITIES AT MILLSTONE⊕	161690 P428
#CONTROL ROD POSITION INDICATOR LIGHT FAILS TO	LIGHT AT BRUNSWICK 1⊕	154712 P125
#VACUUM BREAKER VALVE INDICATING	LIGHT FAILS OFF AT HATCH 1⊕	160267 P322
#CONTROL ROD POSITION INDICATOR	LIGHT FAILS TO LIGHT AT BRUNSWICK 1⊕	154712 P125
#CONTAINMENT VACUUM BREAKER	LIGHTS FAIL TO INDICATE OPEN AT HATCH 2.⊕	154619 P347
#CONTROL ROD POSITION	LIGHTS REMAIN ON WHEN RODS MOVED AT OYSTER CREEK⊕	158695 P456
#FUEL EXPOSURE EXCEEDS MAPLHGR	LIMIT ANALYSIS EXPOSURES AT QUAD CITIES 1⊕	153044 P537
#DIESEL GENERATOR LUBE OIL LEVEL DROPS BELOW	LIMIT AT ARNOLD⊕	153730 P 2
#SUPPRESSION CHAMBER OXYGEN CONCENTRATION EXCEEDS	LIMIT AT ARNOLD⊕	155529 P 2
#LEAK RATE OF MSIV'S EXCEEDS	LIMIT AT ARNOLD⊕	155526 P 4
#CONTAINMENT ISOLATION VALVES' LEAK RATES EXCEED	LIMIT AT BIG ROCK POINT⊕	162388 P 48
#LEAK RATE OF THREE MAIN STEAM ISOLATION VALVES EXCEED	LIMIT AT BROWNS FERRY 1.⊕	154617 P 48
#TOTAL CONTAINMENT LEAK RATE EXCEEDS	LIMIT AT BROWNS FERRY 1⊕	155532 P 55
#CORE SPRAY PUMP AREA COOLER FAN THERMOSTAT SET ABOVE	LIMIT AT BROWNS FERRY 1⊕	159399 P 68
#RIVER WATER TEMPERATURE RISE EXCEEDS	LIMIT AT BROWNS FERRY 1⊕	160156 P 73
#DIFFERENTIAL RIVER TEMPERATURE EXCEEDS	LIMIT AT BROWNS FERRY 1⊕	161756 P 78
#HPCI CHECK VALVE LEAK RATE EXCEEDS	LIMIT AT BROWNS FERRY 2⊕	160092 P 96
#DISCHARGE CHLORINE CONCENTRATION EXCEEDS	LIMIT AT BROWNS FERRY 2⊕	163670 P 97
#CONTAINMENT LEAK RATE EXCEEDS	LIMIT AT BROWNS FERRY 2⊕	161792 P 98
#FLOW THROUGH RHR PUMP SEAL COOLERS FALLS BELOW	LIMIT AT BROWNS FERRY 3⊕	155503 P105
#COOLING WATER FLOW TO RHR PUMP SEAL FALLS BELOW	LIMIT AT BROWNS FERRY 3⊕	159393 P114
#RIVER TEMPERATURE EXCEEDS	LIMIT AT BROWNS FERRY⊕	158700 P 66
#REACTOR VESSEL CONDUCTIVITY EXCEEDS	LIMIT AT BRUNSWICK 1⊕	155311 P135
#CONTAINMENT ATMOSPHERE DILUTION TANK VOLUME FALLS BELOW	LIMIT AT BRUNSWICK 1⊕	158658 P145
#REACTOR VESSEL CONDUCTIVITY EXCEEDS	LIMIT AT BRUNSWICK 1⊕	163665 P146
#REACTOR COOLANT CONDUCTIVITY EXCEEDS	LIMIT AT BRUNSWICK 1⊕	160403 P150
#MILK SAMPLE IODINE ACTIVITY EXCEEDS	LIMIT AT BRUNSWICK 1⊕	162480 P159
#GROSS BETA CONCENTRATION EXCEEDS	LIMIT AT BRUNSWICK 1⊕	162396 P159
#REACTOR COOLANT CONDUCTIVITY EXCEEDS	LIMIT AT BRUNSWICK 2⊕	153737 P164
#CRITICAL POWER RATIO IS LESS THAN	LIMIT AT BRUNSWICK 2⊕	155575 P166
#TORUS LEVEL EXCEEDS HIGH	LIMIT AT BRUNSWICK 2⊕	155513 P173
#SUPPRESSION POOL LEVEL EXCEEDS	LIMIT AT BRUNSWICK 2⊕	160514 P190
#CONTROL ROD INSERTION TIME EXCEEDS	LIMIT AT BRUNSWICK 2⊕	160513 P190
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS	LIMIT AT BRUNSWICK 2⊕	160874 P191
#UPDATE ON CONTAINMENT OXYGEN CONCENTRATION EXCEEDING	LIMIT AT BRUNSWICK 2⊕	163503 P191
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS	LIMIT AT BRUNSWICK 2⊕	160820 P193
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS	LIMIT AT BRUNSWICK 2⊕	161817 P199
#TORUS LEVEL EXCEEDS	LIMIT AT BRUNSWICK 2⊕	161813 P200
#SLC PUMP FLOW FALLS BELOW	LIMIT AT COOPER⊕	156169 P244
#DISCHARGE LIQUID EFFLUENT RADIATION LEVEL EXCEEDS	LIMIT AT DRESDEN 1⊕	156224 P205
#RADIOACTIVITY IN WASTE SAMPLE TANK EXCEEDS	LIMIT AT DRESDEN 2⊕	153495 P206
#WASTE SAMPLE TANK ACTIVITY EXCEEDS	LIMIT AT DRESDEN 2⊕	154927 P209
#FEEDWATER INBOARD CHECK VALVE LEAK RATE EXCEEDS	LIMIT AT DRESDEN 3⊕	155516 P227

#CONTAINMENT VENT LINE ISOLATION VALVE LEAKAGE EXCEEDS	LIMIT AT DRESDEN 3*	155521 P227
#FEEDWATER CHECK VALVE LEAK RATE EXCEEDS	LIMIT AT DRESDEN 3*	156159 P229
#REACTOR PRESSURE AND COOLANT TEMPERATURE EXCEED	LIMIT AT DRESDEN 3*	163344 P240
#TORUS WATER LEVEL FALLS BELOW	LIMIT AT DUANE ARNOLD*	159215 P 13
#INSTRUMENT AC UNDERVOLTAGE RELAY SETPOINT FALLS BELOW	LIMIT AT DUANE ARNOLD*	163373 P 24
#TORUS WATER LEVEL PUMPED DOWN BELOW	LIMIT AT DUANE ARNOLD*	163370 P 25
#TORUS WATER LEVEL DROPS BELOW	LIMIT AT FITZPATRICK*	154666 P265
#TORUS WATER LEVEL EXCEEDS	LIMIT AT FITZPATRICK*	155950 P269
#DRYWELL TO TORUS DIFFERENTIAL PRESSURE FALLS BELOW	LIMIT AT FITZPATRICK*	155308 P270
#CORE SPRAY PIPE BREAK DETECTOR SET POINT EXCEEDS	LIMIT AT FITZPATRICK*	155303 P270
#DRIFTING LPRM CAUSES INDICATED HIGH THERMAL	LIMIT AT FITZPATRICK*	155418 P273
#DRYWELL TO TORUS DIFFERENTIAL PRESSURE FALLS BELOW	LIMIT AT FITZPATRICK*	157094 P275
#RADIOACTIVITY RELEASE EXCEEDS REPORT	LIMIT AT FITZPATRICK*	158237 P275
#IODINE RELEASE RATE EXCEEDS	LIMIT AT FITZPATRICK*	158622 P279
#TORUS WATER LEVEL FALLS BELOW	LIMIT AT FITZPATRICK*	158604 P282
#COBALT ACTIVITY IN PERIPHYTON SAMPLE EXCEED	LIMIT AT FITZPATRICK*	160498 P291
#MILK SAMPLE IODINE ACTIVITY EXCEEDS	LIMIT AT FITZPATRICK*	163381 P296
#HPCI STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE	LIMIT AT HATCH 1*	153533 P101
#HPCI STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE	LIMIT AT HATCH 1*	153903 P299
#HEAD DEVELOPED BY PLANT SERVICE WATER PUMP EXCEEDS	LIMIT AT HATCH 1*	156130 P310
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS	LIMIT AT HATCH 1*	156137 P312
#FIRE WATER STORAGE TANK LEVEL DROPS BELOW	LIMIT AT HATCH 1*	157090 P313
#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS	LIMIT AT HATCH 1*	158598 P316
#SERVICE WATER PUMP FLOW RATE FALLS BELOW	LIMIT AT HATCH 1*	158601 P318
#NITROGEN TANK LEVEL FALLS BELOW	LIMIT AT HATCH 1*	161950 P341
#NITROGEN STORAGE TANK CONTENTS FALL BELOW	LIMIT AT HATCH 1*	162761 P344
#LEAKAGE OF FIVE MSIV'S EXCEED	LIMIT AT HATCH 2*	156131 P356
#CONTAINMENT ISOLATION VALVE LEAK RATES EXCEED	LIMIT AT HATCH 2*	157132 P362
#REACTOR COOLANT CHLORIDE CONCENTRATION EXCEEDS	LIMIT AT HATCH 2*	156996 P362
#FEEDWATER ISOLATION VALVE LEAK RATE EXCEEDS	LIMIT AT HATCH 2*	156222 P364
#RADWASTE DISCHARGE ISOLATION VALVE LEAKAGE EXCEEDS	LIMIT AT HATCH 2*	158308 P368
#DRYWELL TEMPERATURE EXCEEDS	LIMIT AT HATCH 2*	158673 P381
#DRYWELL AVERAGE TEMPERATURE EXCEEDED THE 145 F	LIMIT AT HATCH 2*	159626 P384
#TORUS TEMPERATURE EXCEEDS	LIMIT AT HATCH 2*	159308 P392
#TORUS WATER LEVEL BELOW	LIMIT AT HATCH 2*	160302 P403
#FEEDWATER ISOLATION VALVE LEAK RATE EXCEEDS	LIMIT AT HATCH 2*	161854 P403
#RCIC TURBINE EXHAUST ISOLATION VALVE LEAK RATE EXCEEDS	LIMIT AT HATCH 2*	161852 P404
#FEEDWATER ISOLATION VALVE LEAK RATES EXCEED	LIMIT AT HATCH 2*	161845 P404
#DRYWELL PNEUMATIC RETURN ISOLATION VALVE LEAK RATE EXCEEDS	LIMIT AT HATCH 2*	161880 P406
#CONTAINMENT ISOLATION VALVE LEAKAGE EXCEEDS	LIMIT AT HATCH 2*	162703 P407
#MAIN COOLANT ALPHA ACTIVITY EXCEEDS	LIMIT AT LA CROSSE*	160363 P414
#MAIN CCOLANT ALPHA ACTIVITY EXCEEDS	LIMIT AT LA CROSSE*	160364 P415
#ELECTRICAL PENETRATION LEAK RATES EXCEED	LIMIT AT LACROSSE*	156223 P412
#CONTAINMENT ISOLATION VALVE LEAK RATE EXCEEDS	LIMIT AT LACROSSE*	162016 P418
#LEAK RATE OF OUTBOARD MSIV EXCEEDS	LIMIT AT MONTICELLO*	156238 P428
#LEAK RATE OF HPCI TURBINE EXHAUST CHECK VALVE EXCEEDS	LIMIT AT MONTICELLO*	156239 P429
#LEAK RATE OF STANDBY LIQUID CONTROL VALVE EXCEEDS	LIMIT AT MONTICELLO*	156240 P429
#LEAK RATE OF TORUS VENT VALVE EXCEEDS	LIMIT AT MONTICELLO*	156241 P430
#LEAK RATE OF RCIC TURBINE EXHAUST CHECK VALVE EXCEEDS	LIMIT AT MONTICELLO*	156242 P431
#LEAK RATE OF TORUS INSTRUMENT AIR VALVE EXCEEDS	LIMIT AT MONTICELLO*	156243 P431
#LEAK RATE OF DRYWELL EQUIPMENT DRAIN SUMP VALVE EXCEEDS	LIMIT AT MONTICELLO*	156244 P432
#LEAK RATE OF INBOUND MSIV EXCEEDS	LIMIT AT MONTICELLO*	156245 P432
#MSIV FAILS TO CLOSE WITHIN TIME	LIMIT AT MONTICELLO*	160239 P436
#AVERAGE PLANAR HEAT GENERATION RATE EXCEEDS	LIMIT AT NINE MILE POINT 1*	154448 P438
#INDICATED TEMPERATURE ACROSS CONDENSER EXCEEDS	LIMIT AT NINE MILE POINT 1*	154447 P439
#AVERAGE PLANAR LINEAR HEAT GENERATION RATE EXCEEDS	LIMIT AT NINE MILE POINT 1*	154445 P439
#LIQUID EFFLUENT DISCHARGE TEMPERATURE EXCEEDS	LIMIT AT NINE MILE POINT 1*	155298 P440
#CIRCULATING WATER DELTA TEMPERATURE EXCEEDS	LIMIT AT NINE MILE POINT 1*	158636 P442
#INSTRUMENT PROCEDURE NOT APPROVED IN TIME	LIMIT AT NINE MILE POINT 1*	160058 P446
#MILK SAMPLE IODINE ACTIVITY EXCEEDS	LIMIT AT NINE MILE POINT*	163383 P447
#PRESSURE DROP ACROSS HEPA FILTER EXCEEDS	LIMIT AT OYSTER CREEK 1*	160520 P466
#STANDBY GAS TREATMENT SYSTEM FLOWRATE FALLS BELOW	LIMIT AT OYSTER CREEK*	155456 P452
#TORUS OXYGEN CONCENTRATION EXCEEDS	LIMIT AT OYSTER CREEK*	159327 P461
#RIVER WATER TEMPERATURE EXCEEDS	LIMIT AT OYSTER CREEK*	159137 P471
#DISCHARGE TEMPERATURE EXCEEDS	LIMIT AT OYSTER CREEK*	159320 P472
#WATER TEMPERATURE IN CREEK EXCEEDS	LIMIT AT OYSTER CREEK*	160357 P472
#RCO #ITHDRAWAL BLOCK SETPOINT EXCEEDS	LIMIT AT PEACH BOTTOM 2*	155380 P476
#DIESEL DRIVEN FIRE PUMP FLOWRATE FALLS BELOW	LIMIT AT PEACH BOTTOM 2*	155382 P476
#REACTOR COOLANT CONDUCTIVITY EXCEEDS	LIMIT AT PEACH BOTTOM 3*	155499 P490
#CONDENSER COOLING WATER TEMPERATURE RISE EXCEEDS	LIMIT AT PILGRIM 1*	155396 P502
#LEAKAGE OF TORUS TO RB VACUUM BREAKER EXCEEDS	LIMIT AT PILGRIM 1*	154689 P503
#SR-90 CONCENTRATION IN MILK SAMPLE EXCEEDS REPORT	LIMIT AT PILGRIM 1*	154592 P504
#MUSSEL SAMPLE CCBALT 60 CONCENTRATION EXCEEDS REPORTABLE	LIMIT AT PILGRIM 1*	158846 P514
#REACTOR WATER CONDUCTIVITY EXCEEDS	LIMIT AT PILGRIM 1*	159277 P515
#REACTOR WATER LEVEL SWITCHES EXCEED SET POINT	LIMIT AT PILGRIM 1*	160345 P521
#CONDENSER TEMPERATURE GRADIENT EXCEEDS	LIMIT AT PILGRIM 1*	160323 P525
#CIRCULATING WATER DELTA T EXCEEDS	LIMIT AT PILGRIM 1*	161940 P534
#DRYWELL PURGE VALVE CLOSING TIME EXCEEDS	LIMIT AT QUAD CITIES 1*	153948 P538
#MSIV CLOSURE TIME EXCEEDS	LIMIT AT QUAD CITIES 1*	153491 P538
#CONTAINMENT ISOLATION VALVE LEAK RATES EXCEED	LIMIT AT QUAD CITIES 1*	160815 P546
#SLC RELIEF VALVES UNTIL PRESSURE EXCEEDS	LIMIT AT QUAD CITIES 2*	154916 P551
#REACTOR COOLANT CONDUCTIVITY EXCEEDS	LIMIT AT QUAD CITIES 2*	154494 P545
#DISCHARGE BAY CHLORINE CONCENTRATION EXCEEDS	LIMIT AT QUAD CITIES*	159155 P550
#PRESSURE SWITCH SETPOINT EXCEEDS	LIMIT AT VERMONT YANKEE*	159525 P575
#TWO CONTAINMENT ISOLATION VALVES EXCEED LEAK RATE	LIMIT AT VERMONT YANKEE*	161955 P581
#CAD STORAGE TANK LEVEL DROPS BELOW	LIMIT DURING INERTING AT BRUNSWICK 2*	156110 P178
#CNPP EXCEEDS	LIMIT DURING STARTUP AT HATCH 2*	154761 P352

#CONDENSER COOLING WATER TEMPERATURE	LIMIT EXCEEDED AT COOPER#	159493 P249
#CONDENSER COOLING WATER TEMPERATURE	LIMIT EXCEEDED AT COOPER#	159469 P249
#CONDENSER COOLING WATER TEMPERATURE	LIMIT EXCEEDED AT COOPER#	159485 P251
#CONDENSER COOLING WATER TEMPERATURE	LIMIT EXCEEDED AT COOPER#	159460 P251
#CONDENSER COOLING WATER TEMPERATURE	LIMIT EXCEEDED AT COOPER#	159491 P251
#CONDENSER COOLING WATER TEMPERATURE	LIMIT EXCEEDED IN THREE NODES AT BROWNS FERRY 1#	159192 P 66
#LINEAR HEAT GENERATION RATE	LIMIT FOR RPS DELAY TIME NON-CONSERVATIVE AT VERMONT YANKEE	155469 P565
#TECH SPEC	LIMIT OF REACTOR SCRAM AT PILGRIM 1#	159550 P512
#NRC NOT NOTIFIED WITHIN TIME	LIMIT SWITCH FAILS AT DUANE ARNOLD#	160856 P 19
#CRIC STEAM SUPPLY VALVE	LIMIT SWITCH FAILS TO DEENERGIZE SCRAM CHANNEL RELAY AT	159162 P 89
#MSIV	LIMIT SWITCH FAILS TO RESET AT FITZPATRICK#	163403 P296
#MAIN STEAM ISOLATION VALVE	LIMIT SWITCH FOUND AT HATCH 2#	156961 P371
#NON-QUALIFIED MSIC	LIMIT SWITCHES ON RHR PUMP VALVES ARE BROKEN AT HATCH 2#	157702 P380
#	LIMIT SWITCHES OUT OF LIMITS AT DRESDEN 3#	155999 P227
#SETPOINT OF MSIV SCRAM	LIMIT TOO LONG AT VERMONT YANKEE#	159171 P574
#DRYWELL TO TORUS DIFFERENTIAL PRESSURE FALLS BELOW	LIMIT WITHOUT ANNUNCIATION AT NINE MILE POINT 1#	158593 P442
#CARBOX TANK PRESSURE FALLS BELOW	LIMIT 4 TIMES AT OYSTER CREEK#	160300 P472
#DISCHARGE TEMPERATURE EXCEEDS	LIMITING POWER DENSITY IS TOO HIGH AT HATCH 2#	159618 P383
#CORE MAXIMUM FRACTION OF	LIMITING POWER DENSITY NOT CALCULATED AT HATCH 2#	157157 P377
#CORE MAXIMUM FRACTION OF	LIMITING POWER DENSITY TOO HIGH AT HATCH 2#	157172 P378
#CORE MAXIMUM FRACTION OF	LIMITS AT BROWNS FERRY 3#	# 163461 P100
DRYWELL TO SUPPRESSION CHAMBER DIFFERENTIAL PRESSURE OUT OF	LIMITS AT BRUNSWICK 1#	160204 P140
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#MSIV CLOSURE TIME OUT OF	LIMITS AT DRESDEN 2#	158247 P214
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	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SENSOR AT OYSTER CREEK*	160148	P465
	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SWITCH AT BRUNSWICK 1*	160301	P139
	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SWITCH AT BRUNSWICK 1*	156932	P143
	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SWITCH AT BRUNSWICK 2*	156938	P178
	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SWITCH AT BRUNSWICK 2*	161622	P197
	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SWITCH AT QUAD CITIES 1*	156912	P543
CITIES 1*	#REACTOR LOW-	LOW WATER LEVEL SWITCH FAILS TO OPERATE PROPERLY AT QUAD	155369	P540
	#REACTOR	LOW WATER LEVEL SWITCH FAILS TO TRIP AT BRUNSWICK 1*	154880	P131
*	#REACTOR	LOW WATER LEVEL SWITCH SETPOINT INCORRECT AT BROWNS FERRY 2	159685	P 90
*	#REACTOR	LOW WATER LEVEL SWITCH SETPOINT IS INCORRECT AT BRUNSWICK 2	159356	P184
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	#DRIFT IN REACTOR	LOW WATER LEVEL SWITCHES AT BRUNSWICK 1*	163468	P157
	#SET POINT DRIFT IN REACTOR	LOW WATER LEVEL SWITCHES AT BRUNSWICK 2*	161069	P182
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	#DIESEL GENERATOR	LOWER CRANKSHAFT THRUST BEARING WIPED AT ARNOLD*	155403	P 7
	#	LPCI CHECK VALVE UPSTREAM DRAIN LINE LEAKS AT DRESDEN 2*	158554	P212
	#SET POINT DRIFT IN	LPCI DRYWELL HIGH PRESSURE SWITCH AT DRESDEN 2*	163379	P222
	#	LPCI HEAT EXCHANGER LEAKS AT DRESDEN 3*	163345	P239
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	#	LPCI HEAT EXCHANGER TUBES LEAK AT DRESDEN 3*	158705	P233
	#	LPCI INBOARD ISOLATION VALVE LEAKS AT HATCH 1*	160289	P315
*	#	LPCI INDEPENDENT POWER SUPPLY INVERTER TRIPS AT FITZPATRICK	163463	P278
	#	LPCI INJECTION VALVE FAILED TO OPEN AT PEACH BOTTOM 3*	160140	P447
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	#	LPCI PUMP FAILS TO START AT HATCH 2*	156994	P370
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#LINEAR HEAT GENERATION RATE LIMIT EXCEEDED IN THREE	NODES AT BROWNS FERRY 1•		159192 P 86
#DIESEL GENERATOR NAKES EXCESSIVE	NOISE AT HATCH 2•		161853 P402
#TECH SPEC LIMIT FOR RPS DELAY TIME	NON-CONSERVATIVE AT VERMONT YANKEE•		155469 P589
	# NON-QUALIFIED NSIC LIMIT SWITCH FOUND AT HATCH 2•		156941 P371
#ROD BLOCK AND HIGH FLUX SCRAM CALIBRATIONS ARE	NONCONSERVATIVE AT PILGRIN 1•		159385 P517
#RPS TRIP SETTING	NONCONSERVATIVE AT PILGRIN 1•		160894 P529
#POWER RANGE NONITORS ADJUSTED	NONCONSERVATIVELY AT VERMONT YANKEE•		160064 P576
#4160V BUS TIE BOARD DEENERGIZED AND RESTORED TO	NORNAL FEEDER AT BROWNS FERRY 3•		155391 P104
#CONTROL ROD DRIVE SCRAM DISCHARGE PIPE SUPPORTS ARE	NOT ADEQUATE AT DRESDEN 2•		158692 P214
#RHR NINIMUN FLOW LINES	NOT ADEQUATELY SUPPORTED AT HATCH 2•		155385 P383

@STACK FILTERS	NOT ANALYZED FOR ALPHAS DURING APRIL AT DUANE ARNOLD@	159069 P 27
@EMERGENCY VENT SYSTEM CHARCOAL	NOT ANALYZED WHEN REQUIRED AT NINE MILE PCINT 1@	154446 P439
@INSTRUMENT PROCEDURE	NOT APPROVED IN TIME LIMIT AT NINE MILE PCINT 1@	160058 P446
@CCRE MAXIMUM FRACTION OF LIMITING POWER DENSITY	NOT CALCULATED AT HATCH 2@	157157 P377
@ACCELEROMETER RECORDERS	NOT CALIBRATED ON TIME AT HATCH 2@	157119 P360
@RHR PUMP BREAKER FOUND	NOT CHARGED AT COOPER@	154052 P241
@LINEAR HEAT GENERATION RATE	NOT CHECKED AT BROWNS FERRY 2@	159337 P 91
@BATTERY SURVEILLANCE DOCUMENTATION	NOT COMPLETED AT DUANE ARNOLD@	158305 P 9
@HANGER MODIFICATIONS	NOT COMPLETED AT HATCH 1@	158446 P322
@MAIN STEAM LINE LOW PRESSURE TEST	NOT COMPLETED ON TIME AT DRESDEN 2@	154618 P298
@HPCI PUMP DISCHARGE PIPE CLAMP	NOT CONNECTED AT BRUNSWICK 1@	163393 P155
@DEGRADED FIRE BARRIERS FOUND AND FIRE WATCH	NOT ESTABLISHED AT OYSTER CREEK@	158250 P457
@FIRE WATCH	NOT ESTABLISHED IN TIME AT LACROSSE@	161890 P418
@PROPER FIRE WATCH	NOT ESTASBLISHED IN CABLE SPREADING ROOM AT DUANE ARNOLD@	158304 P 8
@RIP VALVE DOES	NOT FULLY CLOSE AT BRUNSWICK 1@	156928 P142
@CONTROL ROD BLOCK	NOT GENERATED BY REFUEL BRIDGE MOVEMENT AT FITZPATRICK@	160260 P283
@CONTAINMENT	NOT INERTED IN TIME AT COOPER@	163552 P299
@FIRE PROTECTION SYSTEMS	NOT INSPECTED AT BROWNS FERRY 1@	160218 P 71
@RB CLOSED CCOLING WATER PIPING SEISMIC RESTRAINTS	NOT INSTALLED AT BROWNS FERRY 1@	154610 P 48
@PSW SYSTEM SEISMIC PIPING SUPPORT	NOT INSTALLED AT HATCH 1@	160124 P337
@HIGH RADIATION AREA DOORS	NOT LOCKED AT HATCH 1@	159120 P336
@CONTAINMENT DIFFERENTIAL PRESSURE	NOT MAINTAINED AT DRESDEN 3@	153692 P224
@STANDBY SERVICE WATER PUMP DOES	NOT MEET OPERATING SPECS AT HATCH 1@	157721 P302
@CAD SYSTEM DOES	NOT MEET SINGLE FAILURE CRITERICN AT BRUNSWICK 1 AND 2@	161732 P194
@RHR SERVICE WATER PUMP COOLING DOES	NOT MEET SINGLE FAILURE CRITERICN AT HATCH 1@	157123 P314
@PRIMARY CONTAINMENT ISOLATION VALVE TIMING REQUIREMENTS	NOT MET AT COOPER@	159556 P247
@SURVEILLANCE REQUIREMENTS	NOT MET PRIOR TO MOVING FUEL AT PILGRIM 1@	156065 P305
@STACK RELEASES	NOT MONITORED AT OYSTER CREEK 1@	160207 P462
@RPS MOTOR GENERATORS ARE	NOT MONITORED AT PILGRIM 1@	160479 P527
1@ @NRC	NOT NOTIFIED WITHIN TIME LIMIT OF REACTOR SCRAM AT PILGRIM	159550 P512
@ENVIRONMENTAL AIR SAMPLE	NOT OBTAINED AT VERMONT YANKEE@	154606 P586
@ELECTRONIC ANNUNCIATION	NOT ON DOOR TO CONTROL BUILDING AT HATCH 1@	156085 P308
@EMERGENCY FLOODING VENT VALVE DOES	NOT OPEN AT LA CROSSE@	157165 P413
@HPCI SYSTEM	NOT OPERABLE WHEN REQUIRED AT HATCH 1@	156091 P309
@EQUIPMENT AND PERSONNEL LOCK LEAKAGE TESTS	NOT PERFORMED AT BIG ROCK POINT@	156984 P 34
@TEST	NOT PERFORMED AT BROWNS FERRY 1@	159449 P 67
@TURBINE VALVE CLOSURE TEST	NOT PERFORMED AT DUANE ARNOLD@	161752 P 22
@SCRAM DISCHARGE VOLUME HIGH LEVEL INSTRUMENT TEST	NOT PERFORMED AT DUANE ARNOLD@	161926 P 25
@RB VENTILATION EXHAUST SURVEILLANCE	NOT PERFORMED AT FITZPATRICK@	160272 P283
@TURBINE CONTROL VALVE FAST CLOSURE TEST	NOT PERFORMED AT HATCH 1@	154665 P301
@SMOKE DETECTOR SURVEILLANCE	NOT PERFORMED AT HATCH 1@	159232 P329
@SCRAM DISCHARGE VOLUME RESIDUAL WATER CHECK	NOT PERFORMED AT HATCH 1@	160135 P337
@PIPE INSPECTION	NOT PERFORMED AT PILGRIM 1@	160530 P529
@RHR PUMP OPERABILITY TEST	NOT PERFORMED CORRECTLY AT HATCH 1@	158599 P317
@REACTOR BUILDING RADIATION MONITOR TEST	NOT PERFORMED ON TIME AT BROWN'S FERRY 1@	154918 P 80
@STANDBY GAS TREATMENT OPERABILITY TEST	NOT PERFORMED ON TIME AT BRUNSWICK 2@	158632 P178
@HEAT DETECTOR SURVEILLANCE	NOT PERFORMED ON TIME AT DRESDEN 2@	160823 P219
@POST LOCA MONITOR CALIBRATION	NOT PERFORMED ON TIME AT HATCH 1@	157089 P314
@HIGH DRYWELL PRESSURE SWITCH SURVEILLANCE	NOT PERFORMED ON TIME AT HATCH 1@	159064 P330
@FIRE PROTECTION SYSTEM VALVE TESTS	NOT PERFORMED ON TIME AT HATCH 2@	154738 P384
@DIESEL GENERATOR AND CORE SPRAY TESTS	NOT PERFORMED ON TIME AT HATCH 2@	156988 P364
@CONTAINMENT AIR LOCK DOORS INTERLOCK TEST	NOT PERFORMED ON TIME AT HATCH 2@	158618 P372
@CONTROL ROD FREE TRAVEL INTERLOCK SURVEILLANCE	NOT PERFORMED ON TIME AT OYSTER CREEK@	158270 P458
@MAIN STEAM LINE RADIATION MONITOR CALIBRATION	NOT PERFORMED ON TIME AT VERMONT YANKEE@	156842 P571
@INTEGRATED GAMMA EXPOSURE TEST	NOT PERFORMED ON TIME AT VERMONT YANKEE@	155100 P567
@CONTAINMENT HYDROGEN RECOMBINER TEST	NOT PERFORMED PROPERLY AT HATCH 2@	156855 P375
@UNIT 1 TRIP TEST	NOT PERFORMED WHEN REQUIRED AT MILNECLOT BAY@	155480 P410
@SEISMIC INSTRUMENT	NOT PROPERLY CALIBRATED AT HATCH 1@	159378 P346
@RHR	NOT PROPERLY TESTED AT BROWNS FERRY 2@	155457 P 85
@LPRM'S	NOT PROPERLY WIRED AT FITZPATRICK 1@	161742 P294
@ONE CONTROL ROD	NOT PULLED TO TARGET POSITION DURING STARTUP AT HATCH 2@	156132 P337
@DRYWELL EXHAUST SOLENOID COIL	NOT QUALIFIED AT BROWNS FERRY 1@	161892 P 76
@DRYWELL PRESSURE TRANSMITTERS	NOT QUALIFIED AT BROWNS FERRY 1@	161893 P 76
@DRYWELL PRESSURE TRANSMITTER	NOT QUALIFIED AT BROWNS FERRY 2@	161640 P 98
@DRYWELL PRESSURE TRANSMITTER	NOT QUALIFIED AT BROWNS FERRY 3@	161599 P110
@CABLES SPLICES ARE	NOT QUALIFIED AT BRUNSWICK 2@	159158 P180
@HPCI TURBINE DOES	NOT REACH RATED SPEED AT DUANE ARNOLD@	160275 P 10
BROWNS FERRY 2@ @FEEDER BREAKER	NOT RECLOSED FOLLOWING RESTORATION OF OFFSITE POWER AT	156072 P105
@FIRE DOOR CLOSERS	NOT REPAIRED IN TIME AT BRUNSWICK 1 AND 2@	162412 P160
@INOPERABLE PIPING SUPPORT	NOT REPAIRED PRIOR TO STARTUP AT BRUNSWICK 2@	153733 P169
@REACTOR BUILDING VENT SAMPLE SYSTEM	NOT RETURNED TO SERVICE AT DUANE ARNOLD@	155516 P 26
@FIRE DOORS	NOT RETURNED TO SERVICE IN TIME AT BRUNSWICK 2@	162420 P205
@INSTRUMENT MAINTENANCE PROCEDURE CHANGES	NOT REVIEWED AT FITZPATRICK@	160259 P283
@STANDBY GAS TREATMENT PROCEDURE CHANGES	NOT REVIEWED AT HATCH 1@	160277 P321
@REACTOR PRESSURE CALIBRATION PROCEDURE	NOT REVIEWED AT HATCH 2@	161874 P401
@CONTAINMENT ATMOSPHERIC CONTROL CABLE	NOT ROUTED PROPERLY AT HATCH 1@	158791 P320
@HOLDUP TANK	NOT SAMPLED AT DRESDEN 1@	159515 P206
@FUEL BUNDLE DISCOVERED ROTATED AND	NOT SEATED AT OYSTER CREEK@	154934 P450
@REACTOR VESSEL HEAD INSULATION	NOT SEISMIC QUALIFIED AT HATCH 2@	162146 P408
@RADWASTE PIPING IS	NOT SEISMICALLY PROTECTED AT HATCH 2@	160522 P309
@SAFETY/RELIEF VALVE AIR LINE SUPPORT	NOT SEISMICALLY QUALIFIED AT MONTICELLO@	156018 P433
@DRYWELL TO TEMPERATURE RECORDER WAS	NOT STAMPING AT HATCH 1@	159669 P327
@TEN PIPES	NOT SUPPORTED PROPERLY AT QUAD-CITIES 1@	160904 P848
@DIESEL FIRE PUMP DAY TANK SAMPLES	NOT TAKEN AT DRESDEN 2@	160361 P218
@REACTOR WATER SAMPLES	NOT TAKEN AT HATCH 1@	159065 P331
@ENVIRONMENTAL AIR SAMPLES	NOT TAKEN AT VERMONT YANKEE@	158703 P573
@TURBINE BUILDING VENTILATION SAMPLES	NOT TAKEN ON TIME AT BROWNS FERRY 1@	159434 P 70

#REACTOR COOLANT SAMPLES	NOT TAKEN WHEN REQUIRED AT FITZPATRICK#	154661	P286
#SBGT SYSTEM	NOT TESTED AS REQUIRED AT HATCH 1#	154663	P302
#RECIRCULATION PUMP TRIP SYSTEM	NOT TESTED AT DUANE ARNOLD#	160202	P 15
#APRM INSTRUMENTS	NOT TESTED AT FITZPATRICK#	159222	P285
#SAFETY RELIEF VALVE TAILPIPE PRESSURE SWITCH	NOT TESTED AT HATCH 1#	161059	P339
#CABLE VAULT SMOKE DETECTION SYSTEM	NOT TESTED AT MILLSTONE 1#	157402	P421
#FIRE PUMPS	NOT TESTED AT VERMONT YANKEE#	161637	P378
#REACTOR PROTECTION SYSTEM RELAYS	NOT TESTED IN TIME AT HATCH 2#	159092	P387
#FIRE PROTECTION ZONE	NOT TESTED ON TIME AT BROWNS FERRY 3#	158596	P109
#DRYWELL-TORUS VACUUM BREAKERS	NOT TESTED ON TIME AT HATCH 2#	160845	P400
#SHUTDOWN CONDENSER CONTROL VALVES	NOT TESTED ON TIME AT LACROSSE#	161891	P416
#OFF-GAS HYDROGEN ANALYZERS	NOT TESTED ON TIME AT MILLSTONE 1#	161679	P428
#CONTROL ROD DRIVE SCRAM PILOT SOLENOIDS	NOT TESTED ON TIME AT NINE MILE POINT#	153384	P447
#ROD BLOCK MONITOR	NOT TESTED WHEN REQUIRED AT HATCH 1#	155411	P310
#ELECTRICAL POWER SOURCES	NOT TESTED WHEN REQUIRED AT HATCH 2#	154942	P350
#MAIN STATION AND DG BATTERIES	NOT TESTED WHEN REQUIRED AT OYSTER CREEK#	155443	P484
#MONORAIL HOIST OPERABILITY	NOT VERIFIED BEFORE USE AT HATCH 2#	161423	P406
#CONTROL ROD HAS NO POSITION INDICATION FOR ONE	NOTCH AT BRUNSWICK 1#	153731	P128
#CONTROL ROD HAS NO POSITION INDICATION FOR ONE	NOTCH AT BRUNSWICK 2#	153735	P165
#EXCESSIVE EROSION	NOTED IN SW PUMPS STRAINER BACKWASH LINE AT COOPER#	153972	P240
#NRC NOT	NOTIFIED WITHIN TIME LIMIT OF REACTOR SCRAM AT PILGRIM 1#	159550	P512
#STEAM SUPPLY PIPING	NOZZLE WELD CRACKS AT MILLSTONE 1#	161471	P425
# NRC NOT NOTIFIED WITHIN TIME LIMIT OF REACTOR SCRAM AT PILGRIM 1#		159550	P512
#THREE UNAUTHORIZED TRANSFERS OF SPECIAL	NUCLEAR MATERIAL AT HATCH 1#	161949	P343
#A	NUMBER OF SRM PROBLEMS WERE ENCOUNTERED AT FITZPATRICK#	154585	P263
#REACTOR COOLANT LEAK DETECTION PARTICULATE CHAMBER COVER	NUTS STRIPPED AT PILGRIM 1#	159463	P522

#ENVIRONMENTAL AIR SAMPLE NOT	OBTAINED AT VERMONT YANKEE#	154606	P586
#MULTIPLE HPCI AND RCIC FAILURES	OCCUR AT PILGRIM 1#	159600	P510
#DAMAGE MIGHT	OCCUR TO CONTAINMENT ISOLATION VENTILATION VALVE OPERATORS AT BIG ROCK POINT#	156954	P 36
#FISH KILL	OCCURS AFTER A SHUT DOWN AT OYSTER CREEK#	154622	P348
#FISH KILL	OCCURS AFTER A SHUT DOWN AT OYSTER CREEK#	154622	P470
#MOMENTARY BREACH OF SECONDARY CONTAINMENT	OCCURS AT BROWNS FERRY 2#	155206	P 81
#SPURIOUS HPCI INITIATION	OCCURS AT HATCH 1#	156997	P318
#GROUND FAULT	OCCURS IN CONTAINMENT ISOLATION VALVE AT FITZPATRICK#	155587	P270
#WATER HAMMER	OCCURS IN ISOLATION CONDENSER PIPING AT MILLSTONE 1#	153948	P419
#SET POINT DRIFT	OCCURS ON TURBINE PRESSURE PERMISSIVE SWITCHES AT BROWNS FERRY 2#	157763	P 88
#DRYWELL SUMP FLOW TRANSMITTER FAILS	OFF AT BROWNS FERRY 3#	159492	P109
#HYDRAULIC ACCUMULATOR AIR VALVE BROKEN	OFF AT BROWNS FERRY 3#	161621	P119
#RHR PUMP TRIPS	OFF AT BRUNSWICK 1#	155507	P132
#VACUUM BREAKER VALVE INDICATING LIGHT FAILS	OFF AT HATCH 1#	160267	P322
#CONTAINMENT FILTER ACCESS COVER COMES	OFF AT NINE MILE POINT 1#	160871	P446
#FIRE ALARM INADVERTENTLY GOES	OFF AT PILGRIM 1#	154899	P505
#FIRE CHECK AT AUXILIARY	OFF GAS BUILDING MISSED AT PILGRIM 1#	159523	P516
#	OFF GAS MONITORING SYSTEM INOPERABLE AT NINE MILE POINT 1#	159513	P444
#	OFF GAS RADIATION MONITOR FAILS AT FITZPATRICK#	160104	P268
#	OFF GAS RADIATION MONITOR INOPERABLE AT PEACH BOTTOM 2#	161909	P486
#FLOW REDUCED TO CONDENSER	OFF GAS RADIATION MONITORS AT PILGRIM 1#	159610	P513
#	OFF GAS RADIATION MONITORS DEGRADED AT MONTICELLO#	159204	P435
#	OFF GAS RADIATION MONITORS INOPERABLE AT MILLSTONE 1#	160233	P422
#BOTH	OFF GAS RADIATION MONITORS INOPERABLE AT VERMONT YANKEE#	154600	P568
#BOTH MAIN CHIMNEY	OFF GAS SAMPLE PUMPS FAIL AT QUAD CITIES 1#	159331	P345
#	OFF GAS STACK FILTER AND CARTRIDGE LOST ON SITE BEFORE ANALYSIS AT ARNOLD#	154675	P 26
#OPENING AND CLOSING TIME OF RHR VALVE	OFF LIMITS AT HATCH 1#	154668	P301
#COMPUTER HAS A SOFTWARE STALL AND GOES	OFF LINE AT BRUNSWICK 2#	154677	P167
#	OFF SITE ELECTRIC POWER LINE TRIPS AT BROWNS FERRY 1#	159267	P 68
#	OFF-GAS HYDROGEN ANALYZERS NOT TESTED ON TIME AT MILLSTONE 1#	161679	P428
#REACTOR STARTED WITH	OFF-GAS MONITORS INOPERABLE AT PEACH BOTTOM 2#	154736	P476
#	OFF-GAS TIMER MISADJUSTED AT FITZPATRICK#	158628	P280
#ONE	OFF-SITE POWER SOURCE TRIPS AT PEACH BOTTOM 2#	156027	P477
#	OFFGAS HYDROGEN SAMPLE PUMP TRIPS AT HATCH 1#	159442	P334
#SUPPRESSION POOL LEVEL INDICATOR READS HIGH	OFFSCALE AT BRUNSWICK 2#	155534	P168
#FEEDER BREAKER NOT RECLOSED FOLLOWING RESTORATION OF	OFFSITE POWER AT BROWNS FERRY 3#	156072	P105
#ONE	OFFSITE POWER LINE FAILS AT BROWNS FERRY 1#	156026	P 54
#ONE	OFFSITE POWER LINE FAILS AT BROWNS FERRY 2#	156031	P 84
#	OFFSITE POWER LOST AT BROWNS FERRY 1#	155528	P 54
#RECIRCULATION PUMP LOW	OIL LEVEL ALARM SHORTS AT BROWNS FERRY 1#	156860	P 59
#DIESEL GENERATOR LUBE	OIL LEVEL DROPS BELOW LIMIT AT ARNOLD#	153730	P 2
#LOW DIESEL GENERATOR GOVERNOR HYDRAULIC	OIL LEVEL FOUND AT DUANE ARNOLD#	158616	P 9
#RECIRCULATION PUMP MOTOR	OIL LEVEL IS LOW AT DUANE ARNOLD#	160268	P 11
#DIESEL GENERATOR TRIPS ON LOW LUBE	OIL PRESSURE AT FITZPATRICK#	154949	P268
#RECIRCULATION PUMP TRIPS ON LOW	OIL PRESSURE AT HATCH 2#	159315	P394
#HPCI EMERGENCY	OIL PUMP DISCHARGE LINE LEAKS AT QUAD CITIES 2#	158714	P556
#HPCI AUXILIARY	OIL PUMP FAILS TO RUN AT BRUNSWICK 1#	155552	P131
#HPCI AUXILIARY	OIL PUMP FEEDER BREAKER TRIPS AT HATCH 2#	154737	P354
#HPCI AUXILIARY	OIL PUMP FOUND INOPERABLE AT COOPER#	153455	P242
#DIESEL GENERATOR LUBE	OIL PUMP INOPERABLE AT BROWNS FERRY 3#	161683	P117
#DG AUXILIARY	OIL PUMP MOTOR TRIPS OUT AT BROWNS FERRY 3#	159490	P110
#DIESEL	OIL SPILLED INTO CANAL AT PEACH BOTTOM 2#	159483	P480
#WASTE	OIL STORAGE AREA SOIL CONTAMINATED AT HATCH 1 AND 2#	162080	P345
ONE CHANNEL AT FITZPATRICK#	#SET POINT DRIFT AND FAILURE OF AVERAGE POWER RANGE MONITORS IN	158627	P280
# ONE CONTROL ROD NOT PULLED TO TARGET POSITION DURING STARTUP AT HATCH 2#		156132	P367
#REACTOR STARTED UP WITH	ONE CORE SPRAY LOOP INOPERABLE AT MONTICELLO#	158553	P434
#ONLY	ONE DILUTION PUMP OPERATING FOR TWENTY MINUTE PERIODS AT OYSTER CREEK#	153497	P448

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60 F AT OYSTER CREEK*                                  #ONLY  ONE DILUTION PUMP OPERATING WHEN INTAKE TEMPERATURE BELOW  159070 P471
CONTAINMENT AT BROWNS FERRY 1*                         #ONLY  ONE ISOLATION VALVE FOUND ON TWO SPARE LINES PENETRATING   155209 P 52
                  #CONTROL ROD HAS NO POSITION INDICATION FOR  ONE NOTCH AT BRUNSWICK 1*                                  153731 P128
                  #CONTROL ROD HAS NO POSITION INDICATION FOR  ONE NOTCH AT BRUNSWICK 2*                                  153735 P165
                                                            #  ONE OF THREE RCS SAMPLING POINTS ISOLATED AT DUANE ARNOLD*  160627 P 20
                                                            #  ONE OFF-SITE POWER SOURCE TRIPS AT PEACH BOTTOM 2*          156027 P477
                                                            #  ONE OFFSITE POWER LINE FAILS AT BROWNS FERRY 1*             156026 P 54
                                                            #  ONE OFFSITE POWER LINE FAILS AT BROWNS FERRY 2*             156031 P 84
BROWNS FERRY 1*                                             #  ONE PIPING RESTRAINT FAILS TO MEET SEISMIC CRITERIA AT      155367 P 53
DOWNSCALE AT BRUNSWICK 1*                                   #  ONE POINT OF CHLORIDE INTRUSION MONITOR INDICATES           153732 P127
AT OYSTER CREEK*                                            #  ONLY ONE DILUTION PUMP OPERATING FOR TWENTY MINUTE PERIODS  153697 P468
BELOW 60 F AT OYSTER CREEK*                                 #  ONLY ONE DILUTION PUMP OPERATING WHEN INTAKE TEMPERATURE    159070 P471
PENETRATING CONTAINMENT AT BROWNS FERRY 1*                  #  ONLY ONE ISOLATION VALVE FOUND ON TWO SPARE LINES           155209 P 52
BROWNS FERRY 2*                                             #  ONLY OPERABLE RECIRCULATION PUMP ACCIDENTALLY TRIPPED AT    155594 P 82
                                  #HPCI STOP VALVE FAILS TO STAY  OPEN AT BROWNS FERRY 1*                                  153490 P 46
                          #CONTAINMENT AIR LOCK DOORS FOUND       OPEN AT BRUNSWICK 1*                                    159143 P146
                  #STANDBY LIQUID CONTROL RELIEF VALVE FAILS TO   OPEN AT BRUNSWICK 1*                                    159199 P147
                                  #RCIC INJECTION VALVE FAILS TO  OPEN AT BRUNSWICK 2*                                    160525 P187
                              #HPCI TURBINE CONTROL VALVE FAILS TO OPEN AT BRUNSWICK 2*                                   160082 P188
                          #CAC MONITOR ISOLATION VALVES FAIL TO   OPEN AT BRUNSWICK 2*                                    161395 P194
                              #TWO CAD SYSTEM VALVES FAIL TO      OPEN AT BRUNSWICK 2*                                    161653 P196
                                  #SERVICE WATER VALVE FAILS TO   OPEN AT COOPER*                                         162522 P258
                                      #FIRE HYDRANT FAILS TO      OPEN AT COOPER*                                         159246 P253
                              #WASTE LINE VALVE OPERATOR FAILS TO OPEN AT COOPER*                                         162519 P259
                                  #TORUS VENT VALVES FAIL TO      OPEN AT DRESDEN 2*                                      158704 P215
                              #HPCI STEAM SUPPLY VALVE FAILS TO   OPEN AT DRESDEN 2*                                      160566 P220
          #LPCI HEAT EXCHANGER SW OUTLET VALVE BREAKER FOUND      OPEN AT DRESDEN 3*                                      153944 P224
                              #LPCI INJECTION VALVE FAILS TO      OPEN AT DRESDEN 3*                                      156037 P228
                  #AUTOMATIC DEPRESSURIZATION VALVES FAIL TO      OPEN AT DRESDEN 3*                                      158231 P232
                              #HPCI STEAM SUPPLY VALVE FAILS TO   OPEN AT DRESDEN 3*                                      160993 P238
              #RCIC TURBINE TRIP AND THROTTLE VALVE FAILS TO      OPEN AT DUANE ARNOLD*                                   159059 P 15
                          #RCIC STEAM SUPPLY LINE VALVE FAILS TO  OPEN AT DUANE ARNOLD*                                   160531 P 21
                          #STEAM PRESSURE RELIEF VALVE STICKS     OPEN AT DUANE ARNOLD*                                   161716 P 22
                      #NEUTRALIZER TANK DISCHARGE VALVE FAILS     OPEN AT FITZPATRICK*                                    154669 P265
                                  #CORE SPRAY VALVE FAILS TO      OPEN AT FITZPATRICK*                                    153729 P266
                                  #CORE SPRAY VALVE FAILS TO      OPEN AT FITZPATRICK*                                    154660 P267
          #RHR SYSTEM DISCHARGE TO RADWASTE VALVE FAILS TO        OPEN AT FITZPATRICK*                                    158330 P276
                          #CONTAINMENT SPRAY VALVE FAILS TO       OPEN AT HATCH 1*                                        156991 P315
                      #SHUTDOWN COOLING SUCTION VALVE FAILS TO    OPEN AT HATCH 1*                                        158734 P321
                          #RHR INBOARD INJECTION VALVE FAILS TO   OPEN AT HATCH 1*                                        159314 P336
      #CONTAINMENT VACUUM BREAKER LIGHTS FAIL TO INDICATE         OPEN AT HATCH 2.*                                       154619 P347
                      #TORUS-DRYWELL VACUUM BREAKER FAILS TO      OPEN AT HATCH 2*                                        156143 P358
                  #MSIV LEAKAGE CONTROL SYSTEM RELAY FAILS TO     OPEN AT HATCH 2*                                        156863 P378
                      #TORUS VACUUM BREAKER VALVE FAILED          OPEN AT HATCH 2*                                        159629 P385
                              #HPCI INJECTION VALVE FAILS TO      OPEN AT HATCH 2*                                        159157 P387
          #HPCI SUPPRESSION CHAMBER SUCTION VALVE FAILS TO        OPEN AT HATCH 2*                                        159317 P390
                      #TORUS/DRYWELL VACUUM BREAKER FAILS TO      OPEN AT HATCH 2*                                        160476 P396
                      #EMERGENCY FLOODING VENT VALVE DOES NOT     OPEN AT LA CROSSE*                                      157105 P413
                      #ELECTROMAGNETIC RELIEF VALVE FAILS TO      OPEN AT NINE MILE POINT 1*                              159511 P443
                      #ELECTROMATIC RELIEF VALVE FAILS TO         OPEN AT OYSTER CREEK*                                   154650 P449
      #GENERATOR LOAD REJECTION SENSOR PRESSURE SWITCH FAILS      OPEN AT OYSTER CREEK*                                   157102 P456
                  #TWO DRYWELL VENT VALVES FOUND TO BE FULLY      OPEN AT PEACH BOTTOM 2*                                 154740 P474
    GAS TREATMENT FILTER ASSEMBLY ISOLATION VALVE FAILS TO        OPEN AT PEACH BOTTOM 2*                    #STANDBY     161071 P483
                              #LPCI INJECTION VALVE FAILS TO      OPEN AT PEACH BOTTOM 3*                                 155416 P490
                              #LPCI INJECTION VALVE FAILS TO      OPEN AT PEACH BOTTOM 3*                                 156969 P493
                          #LPCI INJECTION VALVE FAILED TO         OPEN AT PEACH BOTTOM 3*                                 160148 P497
      #CORE SPRAY PUMP FAILS TO START AND VALVE FAILS TO          OPEN AT PILGRIM 1*                                      158613 P508
                                  #RELIEF VALVE FAILS TO          OPEN AT PILGRIM 1*                                      159499 P520
                              #CORE SPRAY VALVE FAILS TO          OPEN AT PILGRIM 1*                                      160251 P525
                  #TARGET ROCK SAFETY RELIEF VALVE FAILS TO       OPEN AT QUAD CITIES 1*                                  156751 P544
                              #CORE SPRAY VALVE FAILS TO          OPEN AT QUAD CITIES 2*                                  160067 P559
                      #RCIC PUMP DISCHARGE VALVE FAILS TO         OPEN AT QUAD CITIES 2*                                  161455 P560
                          #PRESSURE RELIEF VALVE FAILS TO         OPEN AT QUAD-CITIES 2*                                  156942 P555
                  #RHR CONTAINMENT COOLING VALVE FAILS TO         OPEN AT QUAD-CITIES 2*                                  160578 P560
                      #ELECTROMAGNETIC RELIEF VALVE FAILS TO      OPEN AT QUAD-CITIES 2*                                  163334 P564
                                      #MSIV FAILS TO FULLY        OPEN AT VERMONT YANKEE*                                 153491 P565
                              #HPCI STOP VALVE FAILS TO           OPEN COMPLETELY AT BROWNS FERRY 1*                      156211 P 56
                                  #LPCI VALVE FAILS TO            OPEN FULLY AT QUAD-CITIES 2*                            160567 P559
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#CRD	PIPING SUPPORTS INADEQUATE AT BRUNSWICK 2*	160112	P183
POINT 1* #AVERAGE	PLANAR HEAT GENERATION RATE EXCEEDS LIMIT AT NINE MILE	154448	P438
MILE POINT 1* #AVERAGE	PLANAR LINEAR HEAT GENERATION RATE EXCEEDS LIMIT AT NINE	154445	P439
HATCH 2* #	PLANT SERVICE WATER ISOLATION VALVE FAILS TO CLOSE AT	156108	P358
#HEAD DEVELOPED BY	PLANT SERVICE WATER PUMP EXCEEDS LIMIT AT HATCH 1*	156100	P310
HATCH 2* #	PLANT SERVICE WATER PUMP SEQUENCED TO BLS TOO SOON AT	156122	P360
* #	PLANT STACK GAS MONITORING SYSTEM INOPERABLE AT FITZPATRICK	155523	P271
#BOTH	PLANT VENT EXHAUST FANS CUT OF SERVICE AT BIG ROCK POINT*	153698	P 31
#RHR HEAT EXCHANGER RIB	PLATE BUCKLES AT BRUNSWICK 2*	160296	P174
#CORE SPRAY TO CORE	PLATE DELTA P ALARM ACTIVATED AT DUANE ARNOLD*	159564	P 16
#RHR SERVICE WATER VAULT BED	PLATE DRAIN VALVE FAILS TO CLOSE AT QUAD CITIES 2*	153951	P551
#BOLTS ON PENETRATION BASE	PLATE FOUND FAULTY AT MILLSTONE 1*	159128	P422
AT HATCH 2* #DRYWELL	PNEUMATIC RETURN ISOLATION VALVE LEAK RATE EXCEEDS LIMIT	161880	P406
#DRIFT IN REACTOR WATER LEVEL SWITCH SET	POINT AT FITZPATRICK*	161717	P294
DUANE ARNOLD* #SET	POINT DIRFT IN CORE SPRAY DIFFERENTIAL PRESSURE SWITCH AT	155514	P 5
ONE CHANNEL AT FITZPATRICK* #SET	POINT DRIFT AND FAILURE OF AVERAGE POWER RANGE MONITORS IN	158627	P280
#SET	POINT DRIFT FOUND IN MSIV CLOSURE TIMING AT QUAD-CITIES 2*	159569	P555
#SET	POINT DRIFT IN APRM AT FITZPATRICK*	154672	P264
#SET	POINT DRIFT IN APRM CHANNEL AT BROWNS FERRY 3*	153657	P102
#SET	POINT DRIFT IN APRM CHANNEL AT FITZPATRICK*	154503	P264
CITIES 2* #SET	POINT DRIFT IN AUTOMATIC BLOWDOWN TIMER RELAY AT QUAD	155491	P552
BRUNSWICK 1* #SET	POINT DRIFT IN CONDENSATE STORAGE TANK LEVEL SWITCH AT	155565	P127
#SET	POINT DRIFT IN CONDENSER LOW VACUUM SWITCH AT PILGRIM 1*	156158	P507
#SET	POINT DRIFT IN CONDENSER PRESSURE SWITCH AT DRESDEN 2*	161871	P221
1* #SET	POINT DRIFT IN CONTAINMENT ATMOSPHERE MONITOR AT BRUNSWICK	163502	P159
#SET	POINT DRIFT IN CONTAINMENT GAS ANALYZER AT BRUNSWICK 2*	160499	P186
MILLSTONE 1* #SET	POINT DRIFT IN CONTAINMENT HIGH PRESSURE SWITCH AT	160459	P423
#SET	POINT DRIFT IN CONTAINMENT OXYGEN ANALYZER AT BRUNSWICK 2*	161981	P201
* #SET	POINT DRIFT IN CONTAINMENT PRESSURE SWITCH AT QUAD-CITIES 2	161458	P561
ARNOLD* #SET	POINT DRIFT IN CONTAINMENT SPRAY PRESSURE SWITCH AT DUANE	160460	P 18
DUANE ARNOLD* #SET	POINT DRIFT IN CONTAINMENT SPRAY PRESSURE SWITCHES AT	155512	P 5
OYSTER CREEK* #SET	POINT DRIFT IN CONTAINMENT SPRAY PRESSURE SWITCHES AT	161703	P467
#SET	POINT DRIFT IN CONTAINMENT SPRAY SWITCHES AT OYSTER CREEK*	162041	P470
DRESDEN 3* #SET	POINT DRIFT IN CONTAINMENT VENT AND FUEL POOL MONITORS AT	156336	P229
INDICATORS AT HATCH 2* #SET	POINT DRIFT IN CONTROL ROD DRIVE ACCUMULATOR PRESSURE	158644	P378
#SET	POINT DRIFT IN CORE SPRAY PERMISSIVE SWITCH AT FITZPATRICK*	154664	P265
* #SET	POINT DRIFT IN CORE SPRAY PRESSURE SWITCH AT DUANE ARNOLD*	160353	P 17
* #SET	POINT DRIFT IN CORE SPRAY PRESSURE SWITCH AT PEACH BOTTOM 2	160550	P483
AT PEACH BOTTOM 3* #SET	POINT DRIFT IN CORE SPRAY PRESSURE SWITCHES AT OYSTER CREEK	162044	P469
#SET	POINT DRIFT IN CORE SPRAY PUMP DISCHARGE PRESSURE SWITCH	154017	P488
#SET	POINT DRIFT IN CORE SPRAY SWITCH AT BROWNS FERRY 1*	163338	P 78
BOTTOM 2* #SET	POINT DRIFT IN DEMINERALIZER TEMPERATURE SWITCH AT PEACH	162047	P487
FERRY 3* #SET	POINT DRIFT IN DRYWELL HIGH PRESSURE SWITCH AT BROWNS	161598	P118
* #SET	POINT DRIFT IN DRYWELL HIGH PRESSURE SWITCH AT DUANE ARNOLD	161990	P 23
CREEK* #SET	POINT DRIFT IN DRYWELL HIGH PRESSURE SWITCHES AT OYSTER	160817	P465
#SET	POINT DRIFT IN DRYWELL PRESSURE SWITCH AT PEACH BOTTOM 3*	157744	P494
SWITCH AT QUAD-CITIES 1* #SET	POINT DRIFT IN ELECTROHYDRAULIC CONTROL FLUID PRESSURE	156962	P342
#SET	POINT DRIFT IN FISSION PRODUCT MONITOR AT HATCH 1*	162743	P343

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CREEK*
CREEK*
BRUNSWICK 1*
BRUNSWICK 1*
*
*



BROWNS FERRY 1*
2*
1*
AT QUAD CITIES 1*

AT DRESDEN 2*
*


DRESDEN 2*

AT MONTICELLO*
MILLSTONE 1*
BRUNSWICK 1*
MONTICELLO*
PEACH BOTTOM 2*
CITIES 2*
*
BRUNSWICK 2*
HATCH 2*

FERRY 2*


VERMONT YANKEE*



BROWNS FERRY 2*
FITZPATRICK*
HATCH 1*
BOTTOM 3*
AT PEACH BOTTOM 2*
OYSTER CREEK*
FERRY 2*



OYSTER CREEK 1*
2*


YANKEE*
*
CREEK*
1*
1*
2*
2*
CITIES 1*
BRUNSWICK 2*


BRUNSWICK 1*
PEACH BOTTOM 2*

*


POINT*
*
DRESDEN 2*
ARNOLD*


FITZPATRICK*
BOTTOM 3*
AT HATCH 2*

HATCH 1*
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#SET  POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCH AT FITZPATRICK* 160435 P291
#SET  POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT HATCH 2*   154940 P351
#SET  POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT HATCH 2*   158776 P387
#SET  POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT OYSTER     160326 P462
#SET  POINT DRIFT IN HIGH DRYWELL PRESSURE SWITCHES AT OYSTER     161646 P466
#SET  POINT DRIFT IN HIGH STEAMLINE RADIATION CHANNEL AT          157087 P134
#SET  POINT DRIFT IN HIGH STEAMLINE RADIATION CHANNEL AT          160317 P142
#SET  POINT DRIFT IN HPCI DIFFERENTIAL PRESSURE SWITCH AT HATCH 1 154492 P161
#SET  POINT DRIFT IN HPCI DIFFERENTIAL PRESSURE SWITCH AT HATCH 1 154492 P298
#SET  POINT DRIFT IN HPCI EXHAUST PRESSURE SWITCHES AT HATCH 2*   156130 P356
#SET  POINT DRIFT IN HPCI STEAM FLOW SENSOR AT PEACH BOTTOM 2*    160485 P481
#SET  POINT DRIFT IN HPCI STEAM LINE DP SWITCH AT HATCH 2*        161072 P480
#SET  POINT DRIFT IN HPCI STEAM LINE FLOW SWITCH AT HATCH 2*      158771 P386
#SET  POINT DRIFT IN HPCI STEAM LINE SPACE TEMPERATURE SWITCH AT  161796 P 77
#SET  POINT DRIFT IN HPCI STEAMLINE HIGH D/P SWITCH AT BRUNSWICK  156107 P173
#SET  POINT DRIFT IN HPCI STEAMLINE LOW PRESSURE SWITCH AT HATCH  161614 P342
#SET  POINT DRIFT IN HPCI TURBINE AREA HIGH TEMPERATURE SWITCH    160491 P347
#SET  POINT DRIFT IN HPCI TURBINE PRESSURE SWITCH AT HATCH 2*     160519 P399
#SET  POINT DRIFT IN ISOLATION CONDENSER CONDENSATE FLOW SWITCH   159263 P219
#SET  POINT DRIFT IN ISOLATION CONDENSER FLOW SWITCH AT DRESDEN 2 160092 P211
#SET  POINT DRIFT IN LOW REACTOR LEVEL SWITCHES AT COOPER*        161622 P256
#SET  POINT DRIFT IN LOW WATER LEVEL SCRAM SWITCH AT MILLSTONE 1* 160923 P424
#SET  POINT DRIFT IN LPCI DRYWELL HIGH PRESSURE SWITCH AT         163379 P222
#SET  POINT DRIFT IN LPCI PRESSURE PERMISSIVE AT PILGRIM 1*       157044 P307
#SET  POINT DRIFT IN MAIN STEAM LINE AREA TEMPERATURE SWITCHES    156044 P430
#SET  POINT DRIFT IN MAIN STEAM LINE HIGH FLOW SWITCH AT          155195 P420
#SET  POINT DRIFT IN MAIN STEAM LINE HIGH RADIATION MONITOR AT    154082 P130
#SET  POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT       155191 P428
#SET  POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT       162687 P406
#SET  POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT QUAD  159342 P557
#SET  POINT DRIFT IN MAIN STEAM LINE PRESSURE SWITCH AT DRESDEN 2 163518 P223
#SET  POINT DRIFT IN MAIN STEAM LINE RADIATION MONITOR AT         154559 P162
#SET  POINT DRIFT IN MAIN STEAM LINE TEMPERATURE SWITCHES AT      157129 P341
#SET  POINT DRIFT IN MAIN STEAM RELIEF VALVES AT VERMONT YANKEE*  160930 P570
#SET  POINT DRIFT IN MAINSTEAM LINE HIGH FLOW SWITCH AT BROWNS    153489 P 79
#SET  POINT DRIFT IN MSIV LOW PRESSURE SENSORS AT OYSTER CREEK*   159675 P464
#SET  POINT DRIFT IN PRESSURE RELIEF VALVE AT VERMONT YANKEE*     160335 P579
#SET  POINT DRIFT IN PRESSURE SWITCH AT BROWNS FERRY 3*           161620 P119
#SET  POINT DRIFT IN RCIC DIFFERENTIAL PRESSURE SWITCH AT         153480 P565
#SET  POINT DRIFT IN RCIC EXHAUST PRESSURE SWITCH AT BRUNSWICK 2* 155317 P173
#SET  POINT DRIFT IN RCIC FLOW INSTRUMENT AT HATCH 1*             154493 P298
#SET  POINT DRIFT IN RCIC FLOW SWITCH AT HATCH 1*                 156096 P309
#SET  POINT DRIFT IN RCIC HIGH STEAM FLOW SWITCH AT FITZPATRICK*  154053 P261
#SET  POINT DRIFT IN RCIC REACTOR WATER LEVEL TRIP SWITCH AT      159284 P113
#SET  POINT DRIFT IN RCIC STEAM LINE LOW PRESSURE SWITCH AT       163404 P296
#SET  POINT DRIFT IN RCIC TURBINE EXHAUST PRESSURE SWITCHES AT    158326 P307
#SET  POINT DRIFT IN RCIC TURBINE STEAM FLOW SWITCH AT PEACH      155367 P491
#SET  POINT DRIFT IN RCIC TURBINE STEAM LINE HIGH FLOW SWITCHES   161779 P484
#SET  POINT DRIFT IN REACTOR HIGH PRESSURE SCRAM SENSORS AT       159326 P460
#SET  POINT DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT BROWNS     159336 P 98
#SET  POINT DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT HATCH 2*   160370 P396
#SET  POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT* 157074 P 34
#SET  POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT* 157076 P 35
#SET  POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT* 160170 P 41
#SET  POINT DRIFT IN REACTOR LO-LO-LO WATER LEVEL SWITCHES AT     161873 P468
#SET  POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT BROWNS FERRY  157716 P109
#SET  POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT BRUNSWICK 2*  159604 P178
#SET  POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT BRUNSWICK 2*  161985 P193
#SET  POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT VERMONT       154714 P566
#SET  POINT DRIFT IN REACTOR LOW PRESSURE SWITCHES AT BRUNSWICK 2 158758 P171
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SENSOR AT OYSTER     160148 P465
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK  160301 P139
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK  156932 P143
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK  156938 P178
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK  161682 P197
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT QUAD       156912 P563
#SET  POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCHES AT          161069 P182
#SET  POINT DRIFT IN REACTOR PRESSURE SWITCH AT BROWNS FERRY 2*   156948 P 87
#SET  POINT DRIFT IN REACTOR PRESSURE SWITCH AT HATCH 2*          160480 P397
#SET  POINT DRIFT IN REACTOR PRESSURE SWITCHES AT BROWNS FERRY 3* 153456 P102
#SET  POINT DRIFT IN REACTOR VESSEL SHROUD LEVEL SWITCH AT        154556 P124
#SET  POINT DRIFT IN REACTOR WATER CLEANUP TEMPERATURE SWITCH AT  160431 P498
#SET  POINT DRIFT IN REACTOR WATER LEVEL SENSORS AT OYSTER CREEK* 159672 P463
#SET  POINT DRIFT IN REACTOR WATER LEVEL SWITCH AT BROWNS FERRY 2 155205 P 81
#SET  POINT DRIFT IN REACTOR WATER LEVEL SWITCH AT DRESDEN 2*     155197 P208
#SET  POINT DRIFT IN REACTOR WATER LEVEL SWITCHES AT FITZPATRICK* 163361 P295
#SET  POINT DRIFT IN REACTOR WATER LEVEL TRANSMITTER AT BIG ROCK  158777 P 37
#SET  POINT DRIFT IN RECIRCULATION VALVE SWITCH AT BROWNS FERRY 3 161934 P122
#SET  POINT DRIFT IN REFUELING FLOOR RADIATION MONITOR AT         160524 P221
#SET  POINT DRIFT IN RHR LOW PRESSURE PERMISSIVE SWITCH AT DUANE  155810 P  4
#SET  POINT DRIFT IN RHR PUMP START RELAY AT HATCH 2*             156133 P388
#SET  POINT DRIFT IN RPS LEVEL SWITCH AT DRESDEN 3*               161460 P237
#SET  POINT DRIFT IN SHUTDOWN COOLING PERMISSIVE SWITCHES AT      158634 P281
#SET  POINT DRIFT IN SHUTDOWN COOLING PRESSURE SWITCH AT PEACH    159410 P493
#SET  POINT DRIFT IN SHUTDOWN COOLING SYSTEM PRESSURE SWITCHES    158662 P379
#SET  POINT DRIFT IN SOURCE RANGE MONITOR AT DRESDEN 3*           161456 P236
#SET  POINT DRIFT IN STANDBY LIQUID CONTROL RELIEF VALVE AT       154889 P303
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DRESDEN 3*
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NILE POINT 1*
MATCH 2*
SWITCHES AT BROWNS FERRY 1*
POINT 1*
AT BROWNS FERRY 2*
CITIES 1*
                                                
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CHANNEL OF REACTOR DEPRESSURIZING SYSTEM AT BIG ROCK  POINT*                                  #SETPOINT DRIFTS IN SENSORS  158268 P 37
ISOLATION VENTILATON VALVE OPERATORS AT BIG ROCK      POINT*                                  #DAMAGE MIGHT OCCUR TO CONTAINMENT  156954 P 36
#TURBINE FIRST STAGE PRESSURE SWITCH SET              POINTS HIGH AT BROWNS FERRY 3*  159248 P114
#ONE OF THREE RCS SAMPLING                            POINTS ISOLATED AT DUANE ARNOLD*  160827 P 20
#EMERGENCY BUS MONITOR RELAY TERMINAL                 POINTS OVERHEAT AT HATCH 2*  158310 P367
#SUPPRESSION                                          POOL COOLER PUMP LOSES POWER AT HUMBOLDT BAY*  160292 P410
#SUPPRESSION                                          POOL COOLING INBOARD THROTTLE VALVE FAILS AT COOPER*  159267 P283
#SUPPRESSION                                          POOL COOLING VALVE FAILS TO CLOSE AT QUAD CITIES 2*  158405 P386
#SUPPRESSION                                          POOL EXHAUST VALVE FAILS TO CLOSE AT BRUNSWICK 2*  160487 P185
#SUPPRESSION                                          POOL LEVEL EXCEEDS LIMIT AT BRUNSWICK 2*  160514 P190
#SUPPRESSION                                          POOL LEVEL INDICATOR READS HIGH OFFSCALE AT BRUNSWICK 2*  155536 P168
#SUPPRESSION                                          POOL LEVEL OUT OF LIMITS THREE TIMES AT QUAD CITIES 1*  153947 P537
#SET POINT DRIFT IN CONTAINMENT VENT AND FUEL         POOL MONITORS AT DRESDEN 3*  156336 P229
#MANUAL VALVE ON HPCI SUPPRESSION                     POOL SUCTION LINE FOUND CLOSED AT BRUNSWICK 1*  158515 P132
#RESIDUAL HEAT REMOVAL SYSTEM CONTROL VALVE TRIPS IN MID-  POSITION AT BROWNS FERRY 3*  154707 P103
#CONTAINMENT ISOLATION VALVE FAILS TO INDICATE        POSITION AT BRUNSWICK 2*  161654 P196
#CONTROL ROD UNCOUPLED IN FULL WITHDRAWN              POSITION AT DRESDEN 2*  155372 P210
#MAIN STEAM LINE DRAIN VALVE FAILS IN MID             POSITION AT HATCH 1*  154667 P301
#ONE CONTROL ROD NOT PULLED TO TARGET                 POSITION DURING STARTUP AT HATCH 2*  156132 P387
#CONTROL ROD                                          POSITION INDICATION FAILS AT BRUNSWICK 1*  156178 P135
#CONTROL ROD                                          POSITION INDICATION FAILS AT BRUNSWICK 1*  160304 P141
#CONTROL ROD                                          POSITION INDICATION FAILS AT BRUNSWICK 1*  161687 P155
#TRAVERSING INCORE PROBE                              POSITION INDICATION FAILS AT BRUNSWICK 2*  162706 P202
#CONTROL ROD                                          POSITION INDICATION FAILS AT DRESDEN 2*  159447 P216
#CONTROL ROD HAS NO                                   POSITION INDICATION FOR ONE NOTCH AT BRUNSWICK 1*  153731 P128
#CONTROL ROD HAS NO                                   POSITION INDICATION FOR ONE NOTCH AT BRUNSWICK 2*  153735 P145
#CONTROL ROD                                          POSITION INDICATION INCORRECT AT BRUNSWICK 2*  161626 P198
#RCIC VALVE                                           POSITION INDICATION LOST AT BROWNS FERRY 1*  160905 P 74
#CONTROL ROD                                          POSITION INDICATION LOST AT DRESDEN 2*  160056 P220
#CONTROL ROD                                          POSITION INDICATION LOST AT DRESDEN 3*  160925 P220
#ALL ROD                                              POSITION INDICATION LOST AT VERMONT YANKEE*  154604 P567
#CONTROL ROD                                          POSITION INDICATIONS FAIL AT BRUNSWICK 2*  160146 P192
#TWO CONTROL ROD                                      POSITION INDICATIONS LOST AT BRUNSWICK 1*  163506 P157
#CONTROL ROD                                          POSITION INDICATOR FAILS AT BRUNSWICK 1*  158600 P144
#DRYWELL VACUUM BREAKER                               POSITION INDICATOR FAILS AT HATCH 1*  159486 P338
#CONTROL ROD                                          POSITION INDICATOR LIGHT FAILS TC LIGHT AT BRUNSWICK 1*  154712 P125
#CONTROL ROD                                          POSITION INDICATORS FAIL AT BRUNSWICK 1*  159197 P146
#CONTROL ROD                                          POSITION INDICATORS FAIL AT BRUNSWICK 1*  160108 P149
#CONTROL ROD                                          POSITION LIGHTS REMAIN ON WHEN RODS MOVED AT OYSTER CREEK*  158695 P456
#CONTROL ROD                                          POSITION SWITCH AND ROD BLOCK INOPERABLE AT VERMONT YANKEE*  160895 P576
HATCH 1*                                              # POST LOCA MONITOR CALIBRATION NOT PERFORMED ON TIME AT  157089 P314
#RCIC DRAIN                                           POT LEVEL CONTROL VALVE PACKING RUPTURES AT ARNOLD*  154711 P  1
EXISTS AT VERMONT YANKEE*                             # POTENTIAL FOR HIGH OR LOW VOLTAGE ON 4160 AND 480V SYSTEMS  155497 P570
FERRY 1*                                              # POTENTIAL FOR LOSS OF SECONDARY CONTAINMENT AT BROWNS  155192 P 51
#CONTAINMENT ISOLATION VALVES LOSE                    POWER AND TRANSFER CLOSED AT BROWNS FERRY 3*  157005 P106
#LPCI LOOP LOSES                                      POWER AT BROWNS FERRY 1*  157017 P 89
#BREAKER NOT RECLOSED FOLLOWING RESTORATION OF OFFSITE  POWER AT BROWNS FERRY 3*  #FEEDER  156072 P105
#MSIV LEAKAGE CONTROL SYSTEM BLEED VALVE LOOSES       POWER AT HATCH 2*  157159 P373
#SUPPRESSION POOL COOLER PUMP LOSES                   POWER AT HUMBOLDT BAY*  160292 P410
#POWER LOST TO 125 VDC                                POWER BUS AT ARNOLD*  156303 P  8
#UNQUALIFIED SPLICES DISCOVERED ON MSIV SOLENOID VALVE  POWER CABLES AT MONTICELLO*  156012 P433
#STANDBY GAS TREATMENT                                POWER CABLES UNDERSIZED AT HATCH 2*  156881 P369
#ERROR FOUND IN EMERGENCY                             POWER CONTROL SYSTEM AT HATCH 1*  154884 P306
#CORE MAXIMUM FRACTION OF LIMITING                    POWER DENSITY IS TOO HIGH AT HATCH 2*  159618 P383
#CORE MAXIMUM FRACTION OF LIMITING                    POWER DENSITY NOT CALCULATED AT HATCH 2*  157157 P377
#CORE MAXIMUM FRACTION OF LIMITING                    POWER DENSITY TOO HIGH AT HATCH 2*  157172 P378
#HPCI CONTROL                                         POWER FAILS AT VERMONT YANKEE*  160337 P575
VERMONT YANKEE*                                       # POWER FROM UNINTERRUPTABLE POWER SYSTEM INTERRUPTED AT  157081 P571
#RCIC CONTROL                                         POWER FUSE OPENS AT MONTICELLO*  158818 P434
#HPCI AUTOMATIC FLOW CONTROL                          POWER INVERTER TRIPS AT HATCH 2*  153705 P349
#ONE OFFSITE                                          POWER LINE FAILS AT BROWNS FERRY 1*  156026 P 54
#ONE OFFSITE                                          POWER LINE FAILS AT BROWNS FERRY 2*  156031 P 84
#OFF SITE ELECTRIC                                    POWER LINE TRIPS AT BROWNS FERRY 1*  159267 P 68
#OFFSITE                                              POWER LOST AT BROWNS FERRY 1*  155528 P 54
# POWER LOST TO EMERGENCY SWITCHGEAR BUS AT HATCH 2*  159867 P388
#ELECTRIC                                             POWER LOST TO SBLC SYSTEM AT PEACH BOTTOM 2*  160489 P482
# POWER LOST TO 125 VDC POWER BUS AT ARNOLD*  156083 P  8
#DRIFT IN                                             POWER RANGE MONITOR AT BROWNS FERRY 3*  161633 P118
#AVERAGE                                              POWER RANGE MONITOR FAILS AT NINE MILE POINT 1*  160862 P466
#AVERAGE                                              POWER RANGE MONITOR INOPERABLE AT FITZPATRICK*  156955 P277
#AVERAGE                                              POWER RANGE MONITOR READS LOW AT MILLSTONE 1*  159289 P423
YANKEE*                                               # POWER RANGE MONITORS ADJUSTED NONCONSERVATIVELY AT VERMONT  160864 P576
#SET POINT DRIFT AND FAILURE OF AVERAGE               POWER RANGE MONITORS IN ONE CHANNEL AT FITZPATRICK*  158827 P280
#AVERAGE                                              POWER RANGE MONITORS INOPERATIVE AT BRUNSWICK 1*  159211 P147
#CRITICAL                                             POWER RATIO IS LESS THAN LIMIT AT BRUNSWICK 2*  155575 P166
#ONE OFF-SITE                                         POWER SOURCE TRIPS AT PEACH BOTTOM 2*  156027 P477
#ELECYRICAL                                           POWER SOURCES NOT TESTED WHEN REQUIRED AT HATCH 2*  154942 P350
TWICE AT HATCH 2*                                     # POWER SUPPLY FOR RCIC STEAM LEAK DETECTION SYSTEM FAILS  154621 P347
#LPCI INDEPENDENT                                     POWER SUPPLY INVERTER TRIPS AT FITZPATRICK*  163463 P278
# POWER SUPPLY TRIPS AT VERMONT YANKEE*  160103 P575
#POWER FROM UNINTERRUPTABLE                           POWER SYSTEM INTERRUPTED AT VERMONT YANKEE*  157081 P571
# POWER TO CORE SPRAY LOOP VALVES LOST AT PEACH BOTTOM 3*  160000 P492
#CONTROL                                              POWER TO DIESEL GENERATOR FAILS AT BRUNSWICK 1*  156922 P142
#CONTROL                                              POWER TO RHR VALVE FAILS AT COOPER*  155580 P243
CLEANUP PIPE AT VERMONT YANKEE*                       # PRELIMINARY REPORT ON LINEAR INDICATIONS IN REACTOR  160828 P579
#FUEL BUNDLE MOVED                                    PREMATURELY AT QUAD-CITIES 1*  160059 P547
#RELIEF VALVE                                         PRESSURE ALARM ANNUNCIATES AT DRESDEN 2*  161903 P228
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#RHR SERVICE WATER	PRESSURE	ALARM FAILS AT BRUNSWICK 2*	161656 P192
#LOW	PRESSURE	ALARM RECEIVED ON A HCU ACCUMULATOR AT HATCH 1*	155541 P307
#REACTOR	PRESSURE	AND COOLANT TEMPERATURE EXCEED LIMIT AT DRESDEN 3*	163344 P240
#SCRAM TIMING TEST PERFORMED WITH WRONG RCS	PRESSURE	AT BROWNS FERRY 1*	157046 P 57
#DIESEL GENERATOR TRIPS ON LOW LUBE OIL	PRESSURE	AT FITZPATRICK*	154949 P268
#CONTROL ROD DRIVE ACCUMULATORS FAIL TO MAINTAIN NITROGEN	PRESSURE	AT HATCH 1*	160269 P321
#DIESEL GENERATOR INOPERABLE DUE TO LOW AIR	PRESSURE	AT HATCH 1*	159508 P324
#RECIRCULATION PUMP TRIPS ON LOW OIL	PRESSURE	AT HATCH 2*	159315 P394
PILGRIM 1* #REACTOR	PRESSURE	BOUNDARY LEAK DETECTION MONITOR ISOLATED AT	158768 P513
#REACTOR	PRESSURE	CALIBRATION PROCEDURE NOT REVIEWED AT HATCH 2*	161874 P401
#LOW READING IN DRYWELL-TORUS DIFFERENTIAL	PRESSURE	CHANNEL AT HATCH 1*	154881 P304
CREEK 1* #	PRESSURE	DROP ACROSS HEPA FILTER EXCEEDS LIMIT AT OYSTER	160520 P466
#SLC RELIEF VALVES UNTIL	PRESSURE	EXCEEDS LIMIT AT QUAD CITIES 2*	154916 P551
#DRYWELL TO TORUS DIFFERENTIAL	PRESSURE	FALLS BELOW LIMIT AT FITZPATRICK*	155305 P278
#DRYWELL TO TORUS DIFFERENTIAL	PRESSURE	FALLS BELOW LIMIT AT FITZPATRICK*	157084 P275
#DRYWELL TO TORUS DIFFERENTIAL	PRESSURE	FALLS BELOW LIMIT TOO LONG AT VERMONT YANKEE*	159171 P574
MILE POINT 1* #CARBOX TANK	PRESSURE	FALLS BELOW LIMIT WITHOUT ANNUNCIATION AT NINE	158593 P442
#DRYWELL/TORUS DIFFERENTIAL	PRESSURE	FALLS TOO LOW AT HATCH 1*	158953 P315
#DRYWELL TO TORUS DIFFERENTIAL	PRESSURE	INDICATOR FAILS TO OPERATE AT BROWNS FERRY 2*	154439 P 79
#DRYWELL	PRESSURE	INDICATOR READS HIGH AT BRUNSWICK 1*	154730 P123
#	PRESSURE	INDICATOR SWITCH FAILS AT BIG ROCK POINT*	160291 P 38
#SET POINT DRIFT IN CONTROL ROD DRIVE ACCUMULATOR	PRESSURE	INDICATORS AT HATCH 2*	158044 P378
#JET PUMP DIFFERENTIAL	PRESSURE	INDICATORS FAIL AT FITZPATRICK*	157080 P278
#HPCI STEAM SUPPLY VALVES CLOSE ABOVE	PRESSURE	LIMIT AT HATCH 1*	153503 P161
#HPCI STEAM SUPPLY VALVES CLOSE ABOVE	PRESSURE	LIMIT AT HATCH 1*	153503 P299
#ERROR FOUND IN CALCULATED SAFETY VALVE	PRESSURE	MARGIN AT NINE MILE POINT*	161798 P447
#CONTAINMENT DIFFERENTIAL	PRESSURE	NOT MAINTAINED AT DRESDEN 3*	153492 P224
#DRYWELL TO SUPPRESSION CHAMBER DIFFERENTIAL	PRESSURE	OUT OF LIMITS AT BROWNS FERRY 2*	153461 P100
DRIFT AT BROWNS FERRY 3* #TURBINE	PRESSURE	PERMISSIVE AND PRESSURE SWITCHES HAVE SETPOINT	159108 P110
#SET POINT DRIFT IN LPCI	PRESSURE	PERMISSIVE AT PILGRIM 1*	157044 P507
#SET POINT DRIFT IN RHR LOW	PRESSURE	PERMISSIVE SWITCH AT DUANE ARNOLD*	155510 P 4
#SET POINT DRIFT IN TURBINE FIRST STAGE	PRESSURE	PERMISSIVE SWITCHES AT BROWNS FERRY 1*	159418 P 68
#SET POINT DRIFT OCCURS ON TURBINE	PRESSURE	PERMISSIVE SWITCHES AT BROWNS FERRY 2*	157743 P 88
#DRYWELL/TORUS DIFFERENTIAL	PRESSURE	RECORDER FAILS AT HATCH 1*	156995 P317
#CONTAINMENT	PRESSURE	RECORDER FAILS DOWNSCALE AT ARNOLD*	154507 P 1
#DRYWELL	PRESSURE	RECORDER INOPERABLE AT DUANE ARNOLD*	161999 P 24
#DRYWELL	PRESSURE	RECORDER INOPERATIVE AT HATCH 1*	159589 P330
OYSTER CREEK* #	PRESSURE	RELIEF SET POINT INCORRECT FOR CORE SPRAY AT	160257 P457
MILLSTONE 1* #AUTOMATIC	PRESSURE	RELIEF SYSTEM DRYWELL PRESSURE SENSOR ISOLATED AT	156157 P421
#SET POINT DRIFT IN	PRESSURE	RELIEF VALVE AT VERMONT YANKEE*	160535 P579
#	PRESSURE	RELIEF VALVE FAILS TO OPEN AT QUAD-CITIES 2*	156942 P555
#UPDATE ON	PRESSURE	RELIEF VALVE FAILURE AT QUAD CITIES 2*	163490 P560
#STEAM	PRESSURE	RELIEF VALVE STICKS OPEN AT DUANE ARNOLD*	161716 P 22
* #REACTOR HIGH	PRESSURE	SCRAM SENSOR TRIPS 9 PSIG TOO HIGH AT OYSTER CREEK	157699 P456
#SET POINT DRIFT IN REACTOR HIGH	PRESSURE	SCRAM SENSORS AT OYSTER CREEK*	159326 P460
BROWNS FERRY 2* #LOW	PRESSURE	SENSED BY MAIN STEAM LINE PRESSURE SENSOR AT	156337 P 85
#LOW PRESSURE SENSED BY MAIN STEAM LINE	PRESSURE	SENSOR AT BROWNS FERRY 2*	156337 P 85
#AUTOMATIC PRESSURE RELIEF SYSTEM DRYWELL	PRESSURE	SENSOR ISOLATED AT MILLSTONE 1*	156157 P421
#SET POINT DRIFT IN MSIV LOW	PRESSURE	SENSORS AT OYSTER CREEK*	159675 P464
#SET POINT DRIFT IN REACTOR	PRESSURE	SWITCH AT BROWNS FERRY 2*	156948 P 87
#SET POINT DRIFT IN REACTOR LOW	PRESSURE	SWITCH AT BROWNS FERRY 3*	157716 P109
#SET POINT DRIFT IN DRYWELL HIGH	PRESSURE	SWITCH AT BROWNS FERRY 3*	161598 P118
#SET POINT DRIFT IN	PRESSURE	SWITCH AT BROWNS FERRY 3*	161620 P119
#SET POINT DRIFT IN RCIC EXHAUST	PRESSURE	SWITCH AT BRUNSWICK 2*	155317 P173
#SET POINT DRIFT IN REACTOR LOW	PRESSURE	SWITCH AT BRUNSWICK 2*	159604 P178
#SET POINT DRIFT IN REACTOR LOW	PRESSURE	SWITCH AT BRUNSWICK 2*	161985 P193
#SET POINT DRIFT IN CONDENSER	PRESSURE	SWITCH AT DRESDEN 2*	161871 P221
#SET POINT DRIFT IN LPCI DRYWELL HIGH	PRESSURE	SWITCH AT DRESDEN 2*	163379 P222
#SET POINT DRIFT IN MAIN STEAM LINE	PRESSURE	SWITCH AT DRESDEN 2*	163515 P223
#SET POINT DIRFT IN CORE SPRAY DIFFERENTIAL	PRESSURE	SWITCH AT DUANE ARNOLD*	155514 P 5
#SET POINT DRIFT IN CORE SPRAY	PRESSURE	SWITCH AT DUANE ARNOLD*	160353 P 17
#SET POINT DRIFT IA CONTAINMENT SPRAY	PRESSURE	SWITCH AT DUANE ARNOLD*	160460 P 18
#SET POINT DRIFT IN DRYWELL HIGH	PRESSURE	SWITCH AT DUANE ARNOLD*	161990 P 23
#SET POINT DRIFT IN HIGH DRYWELL	PRESSURE	SWITCH AT FITZPATRICK*	160435 P291
#SET POINT DRIFT IN RCIC STEAM LINE LOW	PRESSURE	SWITCH AT FITZPATRICK*	163404 P296
#SET POINT DRIFT IN HPCI DIFFERENTIAL	PRESSURE	SWITCH AT HATCH 1*	154492 P161
#SET POINT DRIFT IN HPCI DIFFERENTIAL	PRESSURE	SWITCH AT HATCH 1*	154492 P298
#SET POINT DRIFT IN HPCI STEAMLINE LOW	PRESSURE	SWITCH AT HATCH 1*	161614 P342
#SET POINT DRIFT IN TURBINE CONTROL VALVE	PRESSURE	SWITCH AT HATCH 2*	156118 P359
#SET POINT DRIFT IN REACTOR	PRESSURE	SWITCH AT HATCH 2*	160450 P397
#SET POINT DRIFTS IN CORE SPRAY PUMP	PRESSURE	SWITCH AT HATCH 2*	160455 P397
#SET POINT DRIFT IN HPCI TURBINE	PRESSURE	SWITCH AT HATCH 2*	160519 P399
#SET POINT MAIN STEAM LINE	PRESSURE	SWITCH AT HATCH 2*	161473 P401
#SET POINT DRIFT IN CONTAINMENT HIGH	PRESSURE	SWITCH AT MILLSTONE 1*	160459 P423
#SET POINT DRIFT IN MAIN STEAM LINE LOW	PRESSURE	SWITCH AT MONTICELLO*	155191 P428
#SET POINT DRIFT IN CORE SPRAY	PRESSURE	SWITCH AT PEACH BOTTOM 2*	160550 P483
#SET POINT DRIFT IN STEAM LINE	PRESSURE	SWITCH AT PEACH BOTTOM 2*	161961 P485
#SET POINT DRIFT IN MAIN STEAM LINE LOW	PRESSURE	SWITCH AT PEACH BOTTOM 2*	162497 P486
#SET POINT DRIFT IN CORE SPRAY PUMP DISCHARGE	PRESSURE	SWITCH AT PEACH BOTTOM 3*	154017 P488
#SET POINT DRIFT IN SHUTDOWN COOLING	PRESSURE	SWITCH AT PEACH BOTTOM 3*	159410 P493
#SET POINT DRIFT IN DRYWELL	PRESSURE	SWITCH AT PEACH BOTTOM 3*	157744 P494
#SET POINT DRIFT IN MAIN STEAM LINE LOW	PRESSURE	SWITCH AT QUAD CITIES 2*	159342 P557
#SETPOINT DRIFT IN TORUS VACUUM BREAKER	PRESSURE	SWITCH AT QUAD CITIES 2*	159344 P557
#SET POINT DRIFT IN ELECTROHYDRAULIC CONTROL FLUID	PRESSURE	SWITCH AT QUAD-CITIES 1*	156962 P542
#SET POINT DRIFT IN CONTAINMENT	PRESSURE	SWITCH AT QUAD-CITIES 2*	161458 P561
#SET POINT DRIFT IN RCIC DIFFERENTIAL	PRESSURE	SWITCH AT VERMONT YANKEE*	153680 P585
#SET POINT DRIFT IN REACTOR LOW	PRESSURE	SWITCH AT VERMONT YANKEE*	154714 P588

#CONTAINMENT PURGE VACUUM BREAKER	PRESSURE SWITCH FAILS AT HATCH 2*	158726 P369
#GENERATOR LOAD REJECTION SENSOR	PRESSURE SWITCH FAILS OPEN AT OYSTER CREEK*	157162 P456
#LPCI LOOP SELECTION	PRESSURE SWITCH FAILS TC RESET AT DUANE ARNOLD*	159057 P 14
#SET POINT DRIFT OF HIGH DRYWELL	PRESSURE SWITCH FOUND AT QUAD CITIES 1*	156964 P543
#ISOLATION VALVE FOR DRYWELL	PRESSURE SWITCH FOUND CLOSED AT BRUNSWICK 2*	153736 P164
#	PRESSURE SWITCH IN MAIN STEAM SYSTEM TRIPS AT DRESDEN 3*	157058 P231
#REACTOR LOW	PRESSURE SWITCH IS OUT OF CALIBRATION AT BRUNSWICK 2*	159690 P101
#DRYWELL	PRESSURE SWITCH IS OUT OF TOLERANCE AT BRUNSWICK 2*	159621 P101
#CONTROL VALVE FAST CLOSURE	PRESSURE SWITCH MISWIRED AT BROWNS FERRY 1*	158295 P 65
#SAFETY RELIEF VALVE TAILPIPE	PRESSURE SWITCH NOT TESTED AT HATCH 1*	161059 P339
#REACTOR HIGH	PRESSURE SWITCH SET POINT INCORRECT AT HATCH 2*	159305 P394
#TURBINE FIRST STAGE	PRESSURE SWITCH SET POINTS HIGH AT BROWNS FERRY 3*	159265 P114
#REACTOR HIGH	PRESSURE SWITCH SETPOINT DRIFTS AT HATCH 2*	159588 P328
#	PRESSURE SWITCH SETPOINT EXCEEDS LIMIT AT VERMONT YANKEE*	159525 P575
#HPCI AND RCIC STEAM	PRESSURE SWITCH SETPOINTS INCORRECT AT FITZPATRICK*	159576 P288
#REACTOR HIGH	PRESSURE SWITCH SETPOINTS TOO HIGH AT HATCH 1*	159501 P323
#HIGH DRYWELL	PRESSURE SWITCH SURVEILLANCE NOT PERFORMED ON TIME AT	159064 P330
HATCH 1*		
#	PRESSURE SWITCH VALVED OUT AT DRESDEN 2*	159527 P216
#SET POINT DRIFT IN REACTOR HIGH	PRESSURE SWITCHES AT BROWNS FERRY 2*	159336 P 90
#SET POINT DRIFT IN REACTOR	PRESSURE SWITCHES AT BROWNS FERRY 3*	153436 P102
#SET POINT DRIFT IN REACTOR LOW	PRESSURE SWITCHES AT BRUNSWICK 2*	158755 P171
#SET POINT DRIFT IN CONTAINMENT SPRAY	PRESSURE SWITCHES AT DUANE ARNOLD*	155812 P 5
#SET POINT DRIFT IN RCIC TURBINE EXHAUST	PRESSURE SWITCHES AT HATCH 1*	155326 P307
#SET POINT DRIFT IN HIGH DRYWELL	PRESSURE SWITCHES AT HATCH 2*	154940 P351
#SET POINT DRIFT IN HPCI EXHAUST	PRESSURE SWITCHES AT HATCH 2*	156130 P356
#SET POINT DRIFT IN SHUTDOWN COOLING SYSTEM	PRESSURE SWITCHES AT HATCH 2*	158662 P379
#SET POINT DRIFT IN HIGH DRYWELL	PRESSURE SWITCHES AT HATCH 2*	158774 P387
#SET POINT DRIFT IN REACTOR HIGH	PRESSURE SWITCHES AT HATCH 2*	160370 P396
#SET POINT DRIFT IN HIGH DRYWELL	PRESSURE SWITCHES AT OYSTER CREEK*	160326 P462
#SET POINT DRIFT IN DRYWELL HIGH	PRESSURE SWITCHES AT OYSTER CREEK*	160817 P465
#SET POINT DRIFT IN HIGH DRYWELL	PRESSURE SWITCHES AT OYSTER CREEK*	161644 P466
#SET POINT DRIFT IN CONTAINMENT SPRAY	PRESSURE SWITCHES AT OYSTER CREEK*	161763 P467
#SET POINT DRIFT IN CORE SPRAY	PRESSURE SWITCHES AT OYSTER CREEK*	162044 P469
#SETPOINT DRIFT IN	PRESSURE SWITCHES FOR REACTOR PROTECTION SYSTEM AT	158276 P422
MILLSTONE 1*		
#TURBINE PRESSURE PERMISSIVE AND	PRESSURE SWITCHES HAVE SETPOINT DRIFT AT BROWNS FERRY 3*	159108 P110
#CONTROL ROD DRIVE ACCUMULATOR	PRESSURE SWITCHES SET INCORRECTLY AT HATCH 2*	157131 P361
#RPS, HPCI, RCIC, AND CS	PRESSURE SWITCHES SETPOINTS DRIFT AT HATCH 2*	159591 P386
#CONTAINMENT	PRESSURE SWITCHES TRIP OUT OF SPECS AT DUANE ARNOLD*	160268 P 11
#MAIN STEAM LINE LOW	PRESSURE TEST NOT COMPLETED ON TIME AT DRESDEN 2*	154618 P208
#DRYWELL	PRESSURE TRANSMITTER NOT QUALIFIED AT BROWNS FERRY 2*	161640 P 98
#DRYWELL	PRESSURE TRANSMITTER NOT QUALIFIED AT BROWNS FERRY 3*	161599 P119
#DIFFERENTIAL	PRESSURE TRANSMITTER VALVE FOUND CLOSED AT QUAD CITIES 1*	154443 P538
#DRYWELL	PRESSURE TRANSMITTERS NOT QUALIFIED AT BROWNS FERRY 1*	161893 P 76
#SCAFFOLDING	PREVENTS VACUUM BREAKER FROM OPENING FULLY AT OYSTER CREEK*	153030 P449
#	PRIMARY CONTAINMENT INTEGRITY VIOLATED AT QUAD CITIES 1*	162089 P550
#	PRIMARY CONTAINMENT ISOLATION VALVE TIMING REQUIREMENTS	159556 P267
NOT MET AT COOPER*		
#EXCESSIVE	PRIMARY CONTAINMENT LEAKAGE FOUND AT COOPER*	159542 P246
#UPDATE REPORT ON	PRIMARY SYSTEM WATER LEVEL SENSORS AT BIG ROCK POINT*	153973 P 30
#	PRIMARY VENT VALVE FAILS TO CLOSE IN TIME AT QUAD-CITIES 2*	161900 P562
#CONTAINMENT TEMPERATURE RECORDER FAILS TO	PRINT AT HATCH 1*	158688 P328
#DRYWELL TEMPERATURE RECORDER	PRINTS ERRATICALLY AND HIGH AT HATCH 1*	155556 P305
#DRYWELL/TORUS TEMPERATURE RECORDER	PRINTS ERRATICALLY AT HATCH 1*	153738 P303
#LIQUID WASTE RELEASED WITHOUT A	PRIOR ANALYSIS AT HATCH 1*	156060 P307
#SURVEILLANCE REQUIREMENTS NOT MET	PRIOR TO MOVING FUEL AT PILGRIM 1*	156065 P305
#INOPERABLE PIPING SUPPORT NOT REPAIRED	PRIOR TO STARTUP AT BRUNSWICK 2*	153733 P169
#TRAVERSING INCORE	PROBE FAILS TO WITHDRAW AT PEACH BOTTOM 3*	155585 P489
#TRAVERSING INCORE	PROBE POSITION INDICATION FAILS AT BRUNSWICK 2*	162706 P202
#A NUMBER OF SRM	PROBLEMS WERE ENCOUNTERED AT FITZPATRICK*	154505 P263
#INSTRUMENT MAINTENANCE	PROCEDURE CHANGES NOT REVIEWED AT FITZPATRICK*	160259 P283
#STANDBY GAS TREATMENT	PROCEDURE CHANGES NOT REVIEWED AT HATCH 1*	160277 P321
#INSTRUMENT	PROCEDURE NOT APPROVED IN TIME LIMIT AT NINE MILE POINT 1*	160058 P446
#REACTOR PRESSURE CALIBRATION	PROCEDURE NOT REVIEWED AT HATCH 2*	161874 P401
#JET PUMP OPERABILITY TEST	PROCEDURE REQUIRES MODIFICATION AT HATCH 2*	159094 P389
#FISSION	PRODUCT IODINE MONITOR INDICATES HIGH AT HATCH 2*	154626 P346
#SET POINT DRIFT IN FISSION	PRODUCT MONITOR AT HATCH 1*	162743 P343
#	PROPER FIRE WATCH NOT ESTABLISHED IN CABLE SPREADING ROOM	156304 P 8
AT DUANE ARNOLD*		
#FUEL ASSEMBLY LOADED 90 DEGREES FROM	PROPER ORIENTATION AT BROWNS FERRY 1*	160447 P 72
#TUBING GOING INTO CONTAINMENT LACKS	PROPER SUPPORT AT HATCH 1*	158788 P319
#RCIC SYSTEM CONDENSATE PUMP FAILS TO PUMP	PROPERLY AT ARNOLD*	155310 P 4
#LIQUID LEVEL SWITCHES FAIL TO OPERATE	PROPERLY AT BROWNS FERRY 2*	155204 P 81
#MAIN STEAM RELIEF VALVES FAIL TO ACTUATE	PROPERLY AT BROWNS FERRY 2*	160153 P 94
#FOUR RIP VALVES FAIL TO OPERATE	PROPERLY AT BRUNSWICK 1*	154731 P123
#TORUS LEVEL INSTRUMENT FAILS TO FUNCTION	PROPERLY AT BRUNSWICK 1*	154516 P126
#REACTOR LO LO LO LEVEL SWITCH FAILS TO OPERATE	PROPERLY AT FITZPATRICK*	155293 P269
#CONTAINMENT ATMOSPHERIC CONTROL CABLE NOT ROUTED	PROPERLY AT HATCH 1*	158791 P320
#CONTAINMENT HYDROGEN RECOMBINER TEST NOT PERFORMED	PROPERLY AT HATCH 2*	156858 P375
#ECCS LOGIC RELAY FAILS TO FUNCTION	PROPERLY AT PEACH BOTTOM 2*	160333 P481
#REACTOR LOW-LOW WATER LEVEL SWITCH FAILS TO OPERATE	PROPERLY AT QUAD CITIES 1*	155369 P540
#TEN PIPES NOT SUPPORTED	PROPERLY AT QUAD-CITIES 1*	160904 P548
#SEISMIC INSTRUMENT NOT	PROPERLY CALIBRATED AT HATCH 1*	159378 P346
#RHR NOT	PROPERLY TESTED AT BROWNS FERRY 2*	155457 P 85
#LPRM'S NOT	PROPERLY WIRED AT FITZPATRICK 1*	161782 P294
#RADWASTE PIPING IS NOT SEISMICALLY	PROTECTED AT HATCH 2*	160522 P309
#FIRE	PROTECTION ALARM ANNUNCIATES AND WON'T RESET AT BRUNSWICK 2	158303 P294
*		
#FIRE	PROTECTION DELUGE VALVE TRIPS AT BRUNSWICK 1*	162414 P160
#INADEQUATE FIRE	PROTECTION PIPE SUPPORTS INSTALLED AT HATCH 1*	162742 P344
#FIRE	PROTECTION PUMP REMOVED FROM SERVICE AT FITZPATRICK*	158302 P276

#SETPOINT DRIFT IN PRESSURE SWITCHES FOR REACTOR	PROTECTION SYSTEM AT MILLSTONE 1•	158276 P422
#INDICATING VALVES ON THE FIRE	PROTECTION SYSTEM FAILED AT OYSER CREEK•	160263 P456
#DIESEL GENERATOR FIRE	PROTECTION SYSTEM FAILS AT PILGRIM 1•	157021 P508
#RECORD OF 1979 FIRE	PROTECTION SYSTEM FLUSH LOST AT DRESDEN 2•	160461 P219
#REACTOR	PROTECTION SYSTEM FUNCTION FAILS AT PILGRIM 1•	159383 P517
#CARBON DIOXIDE FIRE	PROTECTION SYSTEM INOPERABLE AT FITZPATRICK•	161799 P293
MATCH 1• #REACTOR	PROTECTION SYSTEM MOTOR GENERATOR OUTPUT BREAKER TRIPS AT	157073 P314
#REACTOR	PROTECTION SYSTEM RELAYS NOT TESTED IN TIME AT MATCH 2•	159002 P387
#FIRE	PROTECTION SYSTEM REMOVED FROM SERVICE AT OYSTER CREEK•	155996 P454
MATCH 2• #FIRE	PROTECTION SYSTEM VALVE TESTS NOT PERFORMED ON TIME AT	154738 P354
#FIRE	PROTECTION SYSTEMS NOT INSPECTED AT BROWNS FERRY 1•	160218 P 71
#FIRE	PROTECTION VALVE LEAKS AT BROWNS FERRY 1•	160570 P 76
#FIRE	PROTECTION ZONE NOT TESTED ON TIME AT BROWNS FERRY 3•	158596 P109
#RHR SERVICE WATER PUMPS FAIL TO	PROVIDE SUFFICIENT FLOW AT FITZPATRICK•	160227 P286
#REACTOR HIGH PRESSURE SCRAM SENSOR TRIPS 9	PSIG TOO HIGH AT OYSTER CREEK•	157099 P456
	# PSW SYSTEM SEISMIC PIPING SUPPORT NOT INSTALLED AT MATCH 1•	160124 P337
#ONE CONTROL ROD NOT	PULLED TO TARGET POSITION DURING STARTUP AT MATCH 2•	156132 P357
#ONLY OPERABLE RECIRCULATION	PUMP ACCIDENTALLY TRIPPED AT BROWNS FERRY 2•	155594 P 82
BROWNS FERRY 2• #RHR	PUMP AREA COOLER FAN THERMAL OVERLOAD RELAY FAILS AT	159389 P115
FERRY 1• #CORE SPRAY	PUMP AREA COOLER FAN THERMOSTAT SET ABOVE LIMIT AT BROWNS	159399 P 68
#FEEDER BUS FAULT TRIPS RECIRCULATION	PUMP AT BROWNS FERRY 1•	156960 P 58
#ERRONEOUS MANUAL OPERATION OF A RELAY TRIPS RECIRC	PUMP AT BROWNS FERRY 2•	155365 P 92
#DIESEL FIRE	PUMP BATTERY HAS LOW SPECIFIC GRAVITY AT FITZPATRICK•	159496 P284
#CRACK FOUND IN JET	PUMP BEAM ASSEMBLY AT QUAD-CITIES 2•	157065 P553
#CRACKS DISCOVERED IN JET	PUMP BEAMS AT MILLSTONE 1•	161878 P424
#DISCONTINUITIES DISCOVERED IN JET	PUMP BEAMS AT PILGRIM 1•	156156 P506
#RHR SERVICE WATER	PUMP BEARING COOLING WATER VALVES FOUND CLOSED AT MATCH 1•	158611 P316
#DIESEL FIRE	PUMP BOILS OVER FOLLOWING SHUTDOWN AT FITZPATRICK•	153727 P267
#RHR	PUMP BREAKER FOUND NOT CHARGED AT COOPER•	154352 P241
#STANDBY LIQUID CONTROL	PUMP BREAKER TRIPS INADVERTENTLY AT BROWNS FERRY 3•	161936 P121
#MPCI PIPE SNUBBERS FAIL AND	PUMP CASING GASKET LEAKS AT PILGRIM 1•	159179 P513
#CCSW	PUMP CASING LEAKS AT DRESDEN 3•	159547 P236
MATCH 1• #RHR SERVICE WATER	PUMP COOLING DOES NOT MEET SINGLE FAILURE CRITERION AT	157123 P314
#DIESEL FIRE	PUMP CAY TANK SAMPLES NOT TAKEN AT DRESDEN 2•	160361 P218
#DRYWELL HYDROGEN-OXYGEN ANALYZER	PUMP DIAPHRAGM FAILS AT MATCH 2•	156858 P374
#JET	PUMP DIFFERENTIAL PRESSURE INDICATORS FAIL AT FITZPATRICK•	157060 P278
#MPCI EMERGENCY OIL	PUMP DISCHARGE LINE LEAKS AT QUAD CITIES 2•	158714 P550
#MPCI	PUMP DISCHARGE PIPE CLAMP NOT CONNECTED AT BRUNSWICK 1•	163393 P155
#THROUGH-WALL CRACK FOUND ON REC	PUMP DISCHARGE PIPE WELD AT COOPER•	154053 P241
#SET POINT DRIFT IN CORE SPRAY	PUMP DISCHARGE PRESSURE SWITCH AT PEACH BOTTOM 3•	154017 P488
#CORE SPRAY	PUMP DISCHARGE SWITCH EXCEEDS SETPOINT AT BROWNS FERRY 1•	158269 P 63
#RCIC	PUMP DISCHARGE VALVE FAILS TO OPEN AT QUAD CITIES 2•	161655 P560
#RECIRCULATION	PUMP DISCHARGE VALVE FAILS TO OPEN FULLY AT VERMONT YANKEE•	157039 P571
#RECIRC	PUMP DISCHARGE VALVE LEAK AT PILGRIM•	161824 P534
#SCREEN WASH	PUMP DISCHARGE VALVE LEAKS AT HUMBOLDT BAY 3•	160864 P411
#STANDBY SERVICE WATER	PUMP DOES NOT MEET OPERATING SPECS AT MATCH 1•	157721 P302
#RHR	PUMP DRAIN LINE PIPE CRACKS AT PEACH BOTTOM 3•	156971 P492
#HEAD DEVELOPED BY PLANT SERVICE WATER	PUMP EXCEEDS LIMIT AT MATCH 1•	156188 P310
#DRYWELL AIR SAMPLING	PUMP FAILS AT BROWNS FERRY 1•	157738 P 64
#JET	PUMP FAILS AT DRESDEN 3•	155600 P226
#DRYWELL SUMP	PUMP FAILS AT FITZPATRICK•	160880 P292
#DIESEL DRIVEN FIRE	PUMP FAILS AT OYSTER CREEK•	162433 P473
#CONTAINMENT SAMPLE EXHAUST	PUMP FAILS AT PEACH BOTTOM 3•	160489 P498
#STANDBY LIQUID CONTROL	PUMP FAILS OPERABILITY TEST AT MATCH 2•	156937 P368
#RHR SERVICE WATER	PUMP FAILS TO MEET REQUIREMENTS AT MONTICELLO•	156879 P434
#RCIC SYSTEM CONDENSATE	PUMP FAILS TO PUMP PROPERLY AT ARNOLD•	155310 P 4
#MPCI AUXILIARY OIL	PUMP FAILS TO RUN AT BRUNSWICK 1•	159552 P131
#CORE SPRAY	PUMP FAILS TO START AND VALVE FAILS TO OPEN AT PILGRIM 1•	158613 P508
#RHR SERVICE WATER	PUMP FAILS TO START AT BRUNSWICK 1•	155555 P129
#RHR SERVICE WATER	PUMP FAILS TO START AT BRUNSWICK 1•	155309 P134
#RB RADIATION MONITOR SAMPLE	PUMP FAILS TO START AT MATCH 1•	159567 P326
#LPCI	PUMP FAILS TO START AT MATCH 2•	156994 P370
#RHR	PUMP FAILS TO START AT QUAD-CITIES 2•	160564 P561
#DIESEL FIRE/CORE SPRAY	PUMP FAILS TO START IN TIME AT BIG ROCK POINT•	163389 P 44
#MPCI AUXILIARY OIL	PUMP FEEDER BREAKER TRIPS AT MATCH 2•	154737 P354
#RHR SERVICE WATER	PUMP FLOW DROPS SUDDENLY AT MATCH 2•	155433 P357
#SLC	PUMP FLOW FALLS BELOW LIMIT AT COOPER•	156169 P244
#DIESEL FIRE	PUMP FLOW INADEQUATE AT PILGRIM 1•	161907 P535
#DRYWELL FLOOR SUMP	PUMP FLOW INTEGRATOR INOPERABLE AT PILGRIM 1•	160528 P530
#SERVICE WATER	PUMP FLOW RATE FALLS BELOW LIMIT AT MATCH 1•	158601 P318
#DRYWELL DRAIN SUMP	PUMP FLOW SENSORS OUT OF TOLERANCE AT FITZPATRICK•	159575 P288
#DIESEL DRIVEN FIRE	PUMP FLOWRATE FALLS BELOW LIMIT AT PEACH BOTTOM 2•	155362 P476
#MPCI AUXILIARY OIL	PUMP FOUND INOPERABLE AT COOPER•	153455 P242
#CRACK FOUND IN JET	PUMP HOLD-DOWN BEAM AT VERMONT YANKEE•	160062 P578
#SECTION OF A SPLIT RING FOUND IN THE MAIN MPCI	PUMP IMPELLER AT ARNOLD•	156226 P 6
#DIESEL GENERATOR LUBE OIL	PUMP INOPERABLE AT BROWNS FERRY 3•	161683 P117
#RHR	PUMP INOPERABLE AT COOPER 1•	160051 P255
#RHR SERVICE WATER BOOSTER	PUMP INOPERABLE AT COOPER•	159521 P248
#RHR SW	PUMP INOPERABLE AT MATCH 1•	160145 P339
#MPCI	PUMP INOPERABLE AT MATCH 2•	159592 P386
#STANDBY SERVICE WATER	PUMP INOPERABLE AT MATCH 2•	161770 P402
#DIESEL FIRE	PUMP INOPERABLE AT HUMBOLDT BAY•	162008 P412
#DIESEL FIRE	PUMP INOPERABLE AT PILGRIM 1•	160083 P527
#RHR	PUMP INOPERABLE AT QUAD CITIES 2•	162032 P564
#DEMINERALIZER SYSTEM	PUMP LEAKS AT BIG ROCK POINT•	163500 P 42
#CAPACITY OF FIRE	PUMP LESS THAN THAT REQUIRED BY NEW DEMAND AT DRESDEN 1•	155476 P205
#SUPPRESSION POOL COOLER	PUMP LOSES POWER AT HUMBOLDT BAY•	160292 P410

	#RECIRCULATION	PUMP LOW OIL LEVEL ALARM SHORTS AT BROWNS FERRY 1*	156860 P 59
	#HPCI	PUMP MINIMUM FLOW VALVE FAILS TO CLOSE AT FITZPATRICK*	158301 P276
	#RHR	PUMP MOTOR FAILS AT PEACH BOTTON 2*	158287 P487
	#RECIRC	PUMP MOTOR GENERATOR BREAKER OPENS AT QUAD-CITIES 2*	159689 P858
	#RECIRCULATION	PUMP MOTOR GENERATOR SET TRIPS AT QUAD CITIES 1*	158629 P843
	#RECIRCULATION	PUMP MOTOR GENERATOR TRIPS AT BROWNS FERRY 1*	156862 P 60
	#REACTOR RECIRCULATION	PUMP MOTOR GENERATOR TRIPS AT BRUNSWICK 2*	162709 P292
	#RECIRCULATION	PUMP MOTOR GENERATOR TRIPS AT HATCH 1*	161795 P362
	#DIESEL GENERATOR COOLING WATER	PUMP MOTOR INOPERABLE AT QUAD-CITIES 1*	161898 P549
	#RECIRCULATION	PUMP MOTOR OIL LEVEL IS LOW AT DUANE ARNOLD*	160265 P 11
	#SCREEN WASH	PUMP MOTOR OVERHEATS AT HUNBOLDT BAY*	159437 P411
	#REACTOR RECIRCULATION	PUMP MOTOR SHORTS AT DUANE ARNOLD*	158609 P 9
	#RECIRCULATION	PUMP MOTOR SNUBBER LEAKS AT VERMONT YANKEE*	159172 P874
	#RHR	PUMP MOTOR TRIPS AT BROWNS FERRY 3*	159650 P113
	#DG AUXILIARY OIL	PUMP MOTOR TRIPS OUT AT BROWNS FERRY 3*	159490 P110
	#RHR	PUMP OPERABILITY TEST NOT PERFORMED CORRECTLY AT HATCH 1*	158599 P317
HATCH 2*	#JET	PUMP OPERABILITY TEST PROCEDURE REQUIRES MODIFICATION AT	159094 P389
	#ONLY ONE DILUTION	PUMP OPERATING FOR TWENTY MINUTE PERIODS AT OYSTER CREEK*	153497 P448
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	#SET POINT DRIFTS IN CORE SPRAY	PUMP PRESSURE SWITCH AT HATCH 2*	160655 P307
	#RCIC SYSTEM CONDENSATE PUMP FAILS TO	PUMP PROPERLY AT ARNOLD*	155310 P 4
	#LINEAR INDICATION FOUND ON RECIRC	PUMP REDUCING INSERT WELD AT BRUNSWICK 2*	158407 P171
	#COMPONENT COOLING WATER	PUMP REDUNDANCY VIOLATED AT PILGRIM 1*	160328 P581
	#FIRE PROTECTION	PUMP REMOVED FROM SERVICE AT FITZPATRICK*	158302 P276
	#FIRE	PUMP REMOVED FROM SERVICE FOR REPAIR AT DUANE ARNOLD*	158271 P 27
	#RHR	PUMP ROOM COOLER FAILS TO START AT PEACH BOTTON 2*	160634 P481
	#RHR	PUMP ROOM COOLER FAILS TO START AT PEACH BOTTON 2*	162688 P487
	#RECIRC	PUMP RUNBACK RESULTS IN PUMP SPEED MISMATCH AT MILLSTONE 1*	154444 P419
	#FLOW THROUGH RHR	PUMP SEAL COOLERS FALLS BELOW LIMIT AT BROWNS FERRY 3*	155503 P105
	#COOLING WATER FLOW TO RHR	PUMP SEAL FALLS BELOW LIMIT AT BROWNS FERRY 3*	159393 P114
	#RESTRICTION IN COOLING WATER LINE FOR RHR	PUMP SEAL HEAT EXCHANGER AT BROWNS FERRY 3*	157637 P108
	#LPCI	PUMP SEAL LEAKS AT DRESDEN 2*	160208 P217
	#REACTOR FEEDWATER	PUMP SEAL LEAKS AT NINE MILE POINT*	159680 P444
	#LEAK FOUND ON HPCI	PUMP SEAL SUPPLY LINE AT ARNOLD*	155527 P 3
	#PLANT SERVICE WATER	PUMP SEQUENCED TO BUS TOO SOON AT HATCH 2*	158122 P360
	#REACTOR RECIRCULATION	PUMP SPEED CONTROLLER FAILS AT DRESDEN 3*	160456 P236
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	#CORE SPRAY	PUMP STARTS TOO SOON AT PEACH BOTTON 3*	160332 P498
	#LEAK FOUND IN RECIRC	PUMP SUCTION TEST SECTION AT BRUNSWICK 2*	154732 P162
	#RHR	PUMP SUCTION VALVE LEAKS AT HATCH 2*	161628 P403
	#CORE SPRAY	PUMP SUCTION VENT LINE LEAKS AT OYSTER CREEK*	160863 P466
	#RHR SERVICE WATER	PUMP TIMER OUT OF TOLERANCE AT BROWNS FERRY 1*	156212 P 86
	#RHR	PUMP TIMER RELAY FAILS AT QUAD-CITIES 2*	155985 P883
	#RECIRCULATION	PUMP TRIP SYSTEM NOT TESTED AT DUANE ARNOLD*	160202 P 15
	#RECIRCULATION	PUMP TRIPS AT BROWNS FERRY 2*	155592 P 82
	#REACTOR RECIRCULATION	PUMP TRIPS AT BROWNS FERRY 3*	160126 P115
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	#SALT SERVICE WATER	PUMP TRIPS AT PILGRIM 1*	159607 P816
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	#RHR SERVICE WATER	PUMPS FAIL TO START AT BRUNSWICK 2*	160466 P187
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@FEEDWATER ISOLATION VALVE LEAK	RATE EXCEEDS LIMIT AT HATCH 2@	161854	P403
@RCIC TURBINE EXHAUST ISOLATION VALVE LEAK	RATE EXCEEDS LIMIT AT HATCH 2@	161852	P404
@DRYWELL PNEUMATIC RETURN ISOLATION VALVE LEAK	RATE EXCEEDS LIMIT AT HATCH 2@	161860	P406
@CONTAINMENT ISOLATION VALVE LEAK	RATE EXCEEDS LIMIT AT LACROSSE@	162016	P418
@AVERAGE PLANAR HEAT GENERATION	RATE EXCEEDS LIMIT AT NINE MILE POINT 1@	154448	P438
@AVERAGE PLANAR LINEAR HEAT GENERATION	RATE EXCEEDS LIMIT AT NINE MILE POINT 1@	154445	P439
@SERVICE WATER PUMP FLOW	RATE FALLS BELOW LIMIT AT HATCH 1@	158601	P318
@TWO CONTAINMENT ISOLATION VALVES EXCEED LEAK	RATE LIMIT AT VERMONT YANKEE@	161955	P381
@LINEAR HEAT GENERATION	RATE LIMIT EXCEEDED IN THREE NODES AT BROWNS FERRY 1@	159102	P 66
@LINEAR HEAT GENERATION	RATE NOT CHECKED AT BROWNS FERRY 2@	159337	P 91
AT MONTICELLO@ @LEAK	RATE OF DRYWELL EQUIPMENT DRAIN SUMP VALVE EXCEEDS LIMIT	156244	P432
MONTICELLO@ @LEAK	RATE OF HPCI TURBINE EXHAUST CHECK VALVE EXCEEDS LIMIT AT	156239	P429
@LEAK	RATE OF INBOUND MSIV EXCEEDS LIMIT AT MONTICELLO@	156245	P432
@LEAK	RATE OF MSIV'S EXCEEDS LIMIT AT ARNOLD@	155526	P 4
@LEAK	RATE OF OUTBOARD MSIV EXCEEDS LIMIT AT MONTICELLO@	156238	P428
@LEAK	RATE OF OUTBOARD MSIV EXCEEDS LIMITS AT MONTICELLO@	156237	P428
MONTICELLO@ @LEAK	RATE OF RCIC TURBINE EXHAUST CHECK VALVE EXCEEDS LIMIT AT	156242	P431
MONTICELLO@ @LEAK	RATE OF STANDBY LIQUID CONTROL VALVE EXCEEDS LIMIT AT	156240	P429
HATCH 2@ @LEAKAGE	RATE OF THREE CONTAINMENT ISOLATION VALVES UNACCEPTABLE AT	155432	P396
BROWNS FERRY 1,@ @LEAK	RATE OF THREE MAIN STEAM ISOLATION VALVES EXCEED LIMIT AT	154617	P 48
MONTICELLO@ @LEAK	RATE OF TORUS INSTRUMENT AIR VALVE EXCEEDS LIMIT AT	156243	P431
@LEAK	RATE OF TORUS VENT VALVE EXCEEDS LIMIT AT MONTICELLO@	156241	P430
@CORE HEAT GENERATION	RATE TESTS MISSED AT OYSTER CREEK 1@	161877	P468
@RCIC FAILS TO REACH	RATED FLOW AT BROWNS FERRY 3@	153458	P101
@RCIC FAILS TO REACH	RATED FLOW AT BROWNS FERRY 3@	153458	P101
@HPCI TURBINE DOES NOT REACH	RATED SPEED AT DUANE ARNOLD@	160275	P 10
@HPCI TURBINE FAILS TO REACH	RATED SPEED AT VERMONT YANKEE@	156151	P370
@DIESEL GENERATOR FAILS TO REACH	RATED VOLTAGE AT HATCH 2@	155313	P350
@CONTAINMENT ISOLATION VALVES' LEAK	RATES EXCEED LIMIT AT BIG ROCK POINT@	163388	P 45
@CONTAINMENT ISOLATION VALVE LEAK	RATES EXCEED LIMIT AT HATCH 2@	157132	P362
@FEEDWATER ISOLATION VALVE LEAK	RATES EXCEED LIMIT AT HATCH 2@	161845	P404
@ELECTRICAL PENETRATION LEAK	RATES EXCEED LIMIT AT LACROSSE@	156223	P412
@CONTAINMENT ISOLATION VALVE LEAK	RATES EXCEED LIMIT AT QUAD CITIES 1@	160815	P566
@HPCI AND RHR VALVE LEAK	RATES EXCEED LIMITS AT HATCH 2@	161914	P404
@SEVERAL CONTAINMENT ISOLATION VALVES' LEAK	RATES EXCEED LIMITS AT PEACH BOTTOM 2@	159578	P479
@CRITICAL POWER	RATIO IS LESS THAN LIMIT AT BRUNSWICK 2@	155575	P166
INSTALLED AT BROWNS FERRY 1@ @ RB CLOSED COOLING WATER PIPING SEISMIC RESTRAINTS NOT		154610	P 48
@ RB RADIATION MONITOR SAMPLE PUMP FAILS TO START AT HATCH 1@		159367	P326
@LEAKAGE OF TORUS TO RB VACUUM BREAKER EXCEEDS LIMIT AT PILGRIM 1@		154689	P503
FITZPATRICK@ @ RB VENTILATION EXHAUST SURVEILLANCE NOT PERFORMED AT		160272	P283
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@WATER IMPINGEMENT FROM RECIRC LINE BREAK MIGHT DAMAGE RBCCW PIPING AT BROWNS FERRY 1@		155207	P 53
@HPCI AND RCIC ACTUATIONS AT HATCH 2@		163445	P408
@ RCIC AND HPCI EXHAUST VALVES CLOSED AT BRUNSWICK 2@		160358	P187
@ RCIC AND HPCI INOPERABLE AT QUAD-CITIES 2@		161901	P362
@ RCIC AUTOMATIC FLOW CONTROLLER FAILS AT PEACH BOTTOM 3@		155998	P491
@ RCIC CONTROL POWER FUSE OPENS AT MONTICELLO@		158818	P434
@SET POINT DRIFT IN RCIC DIFFERENTIAL PRESSURE SWITCH AT VERMONT YANKEE@		153480	P565
@ RCIC DRAIN LINE LEAKS STEAM AT MONTICELLO@		160210	P437
@ RCIC DRAIN POT LEVEL CONTROL VALVE PACKING RUPTURES AT		154711	P 1
ARNOLD@ @SET POINT DRIFT IN RCIC EXHAUST PRESSURE SWITCH AT BRUNSWICK 2@		155317	P172
@ RCIC FAILS TO INJECT INTO REACTOR VESSEL AT HATCH 1@		158685	P327
@ RCIC FAILS TO REACH RATED FLOW AT BROWNS FERRY 3@		153459	P101
@ RCIC FAILS TO REACH RATED FLOW AT BROWNS FERRY 3@		153458	P101
@ RCIC FAILS TO RESPOND TO SPEED CONTROL AT HATCH 1@		159502	P324
@MULTIPLE HPCI AND RCIC FAILURES OCCUR AT PILGRIM 1@		159630	P510
@ RCIC FIRE DETECTION SYSTEM INOPERABLE AT FITZPATRICK@		161992	P295
@HPCI AND RCIC FIRE DETECTORS FAIL TO ALARM AT PILGRIM 1@		156268	P520
@ RCIC FLOW CONTROLLER LEFT IN MANUAL FOLLOWING TEST AT QUAD		159413	P565
CITIES 1@ @UPDATE ON RCIC FLOW INDICATOR FAILURE AT BRUNSWICK 2@		161945	P189
@ RCIC FLOW INDICATOR INDICATES NO FLOW AT BRUNSWICK 2@		160367	P188
@SET POINT DRIFT IN RCIC FLOW INSTRUMENT AT HATCH 1@		156493	P298
@UPDATE REPORT ON RCIC FLOW SENSOR FAILURE AT BRUNSWICK 2@		162713	P189
@SET POINT DRIFT IN RCIC FLOW SWITCH AT HATCH 1@		156096	P309
@ RCIC HIGH AMBIENT TEMPERATURE SWITCH FAILS AT FITZPATRICK@		158636	P281
@SET POINT DRIFT IN RCIC HIGH STEAM FLOW SWITCH AT FITZPATRICK@		154653	P261
@ RCIC INJECTION VALVE FAILS TO OPEN AT BRUNSWICK 2@		160525	P187
@ RCIC INOPERABLE AT BRUNSWICK 2@		161972	P201
@ RCIC INOPERABLE AT DUANE ARNOLD@		160324	P 11
@ RCIC INOPERABLE AT DUANE ARNOLD@		160462	P 19
@ RCIC INOPERABLE AT FITZPATRICK@		161685	P292
@ RCIC INOPERABLE AT PEACH BOTTOM 2@		161967	P485
@ RCIC INOPERABLE AT PILGRIM 1@		159551	P511
@ RCIC ISOLATION CONDENSER VALVE INOPERABLE AT DRESDEN 3@		161457	P238
@ RCIC ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1@		159365	P519
@UPDATE REPORT ON RCIC ISOLATION VALVE FAILURE TO CLOSE AT PEACH BOTTOM 2@		161960	P480
AT HATCH 2@ @ RCIC MADE INOPERATIVE WITHOUT BEING DECLARED INOPERATIVE		155300	P353
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@ RCIC OUTBOARD ISOLATION VALVE FAILS TO CLOSE AT HATCH 2@		159319	P394
@ RCIC OUTBOARD ISOLATION VALVE FAILS TO CLOSE AT PILGRIM 1@		159536	P519
@ RCIC PIPE SUPPORT REQUIRES MODIFICATION AT HATCH 1@		159090	P332
@ RCIC PUMP DISCHARGE VALVE FAILS TO OPEN AT QUAD CITIES 2@		161455	P560

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ROCK POINT*
AT BIG ROCK POINT*                                  # REACTOR DEPRESSURIZING SYSTEM CHANNEL BATTERY FAILS AT BIG   159048 P 37
AT BIG ROCK POINT*                                  # REACTOR DEPRESSURIZING SYSTEM CHANNEL REMOVED FROM SERVICE   154035 P 32
                                                    # REACTOR DEPRESSURIZING SYSTEM CHANNEL REMOVED FROM SERVICE   158074 P 35
                                                    # REACTOR EQUIPMENT COOLING PIPE CRACKS AT COOPER*             156898 P245
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                                                    # REACTOR HIGH PRESSURE SCRAM SENSOR TRIPS 5 PSIG TOO HIGH     157699 P456
*                                  #SET POINT DRIFT IN  REACTOR HIGH PRESSURE SCRAM SENSORS AT OYSTER CREEK*        159326 P463
                                                    # REACTOR HIGH PRESSURE SWITCH SET POINT INCORRECT AT HATCH 2  159305 P394
                                                    # REACTOR HIGH PRESSURE SWITCH SETPOINT DRIFTS AT HATCH 2*     159588 P328
                                                    # REACTOR HIGH PRESSURE SWITCH SETPOINTS TOO HIGH AT HATCH 1*  159501 P323
                                  #SET POINT DRIFT IN  REACTOR HIGH PRESSURE SWITCHES AT BROWNS FERRY 2*          159336 P 50
                                  #SET POINT DRIFT IN  REACTOR HIGH PRESSURE SWITCHES AT HATCH 2*                 160370 P396
                                              #HPCI   REACTOR HIGH WATER LEVEL TRIP INOPERABLE AT BROWNS FERRY 1* 156011 P 55
                          #INCORRECT SET POINT IN     REACTOR LEVEL SWITCH AT BROWNS FERRY 2*                     161866 P 59
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                                #SET POINT DRIFT IN LOW  REACTOR LEVEL SWITCHES AT COOPER*                        161622 P256
                                                    # REACTOR LEVEL SWITCHES TRIP TOO LATE AT HATCH 2*             160518 P398
                                  #SET POINT DRIFT IN  REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT*               157074 P 34
                                  #SET POINT DRIFT IN  REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT*               157076 P 35
FITZPATRICK*                                        # REACTOR LEVEL TRANSMITTER AT BIG ROCK POINT*               160170 P 41
                                                    # REACTOR LO LO LO LEVEL SWITCH FAILS TO OPERATE PROPERLY AT   155293 P269
                                  #SET POINT DRIFT IN  REACTOR LO-LO-LO WATER LEVEL SWITCHES AT OYSTER CREEK 1*   161873 P466
                                  #SET POINT DRIFT IN  REACTOR LOW PRESSURE SWITCH AT BROWNS FERRY 3*             157716 P109
                                  #SET POINT DRIFT IN  REACTOR LOW PRESSURE SWITCH AT BRUNSWICK 2*                159604 P178
                                  #SET POINT DRIFT IN  REACTOR LOW PRESSURE SWITCH AT BRUNSWICK 2*                161985 P193
BRUNSWICK 2*                                        # REACTOR LOW PRESSURE SWITCH AT VERMONT YANKEE*             154714 P566
                                                    # REACTOR LOW PRESSURE SWITCH IS OUT OF CALIBRATION AT       159690 P181
                                  #SET POINT DRIFT IN  REACTOR LOW PRESSURE SWITCHES AT BRUNSWICK 2*              158755 P171
                                                    # REACTOR LOW WATER LEVEL FAILS TO ACTUATE AT BRUNSWICK 1*   160534 P155
                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SENSOR AT OYSTER CREEK*            160148 P465
                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 1*             160301 P136
                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 1*             156932 P143
                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 2*             156938 P178
                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SWITCH AT BRUNSWICK 2*             161652 P197
*                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SWITCH AT QUAD CITIES 1*           156912 P543
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*                                                   # REACTOR LOW WATER LEVEL SWITCH SETPOINT IS INCORRECT AT      159356 P184
                                              #DRIFT IN  REACTOR LOW WATER LEVEL SWITCH STICKS CLOSED AT BRUNSWICK 2  158712 P180
                                  #SET POINT DRIFT IN  REACTOR LOW WATER LEVEL SWITCHES AT BRUNSWICK 1*           163468 P137
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                                                    # REACTOR PRESSURE CALIBRATION PROCEDURE NOT REVIEWED AT     161874 P401
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                                  #SET POINT DRIFT IN  REACTOR PRESSURE SWITCH AT HATCH 2*                        160450 P307
                                  #SET POINT DRIFT IN  REACTOR PRESSURE SWITCHES AT BROWNS FERRY 2*               153456 P102
                #SETPOINT DRIFT IN PRESSURE SWITCHES FOR  REACTOR PROTECTION SYSTEM AT MILLSTONE 1*               158276 P422
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                                                    # REACTOR PROTECTION SYSTEM RELAYS NOT TESTED IN TIME AT     159092 P307
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                                                    # REACTOR RECIRCULATION PUMP SPEED CONTROLLER FAILS AT       160456 P236
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                                                    # REACTOR RECIRCULATION PUMP TRIPS AT HATCH 1*               154867 P305
                      #NRC NOT NOTIFIED WITHIN TIME LIMIT OF  REACTOR SCRAM AT PILGRIM 1*                        159445 P524
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3*                                                  # REACTOR SCRAMS WHEN BREAKER FAILS TO CLOSE AT BROWNS FERRY 160313 P444
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BOTTON 2*                                           # REACTOR STARTED WITH OFF-GAS MONITORS INOPERABLE AT PEACH   158553 P434
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                                                    # REACTOR VESSEL CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 1*  158685 P327
                                                    # REACTOR VESSEL CONDUCTIVITY EXCEEDS LIMIT AT BRUNSWICK 1*  155311 P135
HATCH 2*                                            # REACTOR VESSEL DRAIN LINE LEAKS AT PILGRIM 1*              163465 P146
                                                    # REACTOR VESSEL HEAD INSULATION NOT SEISMIC QUALIFIED AT    161606 P533
                                                    # REACTOR VESSEL RELEIF VALVE OPENS SPURIOUSLY AT PILGRIM 1* 162146 P408
                                                    # REACTOR VESSEL RELIEF VALVE OPENS SPURIOUSLY AT PILGRIM 1* 160497 P528
                                  #SET POINT DRIFT IN  REACTOR VESSEL SHROUD LEVEL SWITCH AT BRUNSWICK 1*         160559 P532
BROWNS FERRY 3*                         #HPCI INJECTS INTO  REACTOR VESSEL TWICE AT HATCH 2*                      154554 P124
                                                    # REACTOR WATER CLEAN-UP ISOLATION VALVE FAILS TO CLOSE AT   159030 P409
                                #LINEAR INDICATION FOUND IN  REACTOR WATER CLEAN-UP SYSTEM WELD AT BROWNS FERRY 1.* 156965 P108
                                              #LEAK IN  REACTOR WATER CLEANUP HEAT EXCHANGER LINE AT DRESDEN 3*    154615 P 48
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                                                    # REACTOR WATER CLEANUP PIPE CRACKS AT HATCH 1*              156207 P230
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                                                    # REACTOR WATER CLEANUP SYSTEM ISOLATION VALVE FAILS TO      160855 P 20
                                                    # REACTOR WATER CLEANUP SYSTEM PIPE CRACKS AT BRUNSWICK 2*   157059 P174
                                  #SET POINT DRIFT IN  REACTOR WATER CLEANUP TEMPERATURE SWITCH AT PEACH BOTTOM 3*  160431 P498
                                                    # REACTOR WATER CONDUCTIVITY EXCEEDS LIMIT AT PILGRIM 1*     159277 P519
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	# REACTOR WATER LEVEL INDICATION SWITCH FAILS AT BRUNSWICK 2#	160045	P186
VENTING AT BIG ROCK POINT#	# REACTOR WATER LEVEL SENSOR REMOVED FROM SERVICE FOR	160071	P 40
#SET POINT DRIFT IN	REACTOR WATER LEVEL SENSORS AT OYSTER CREEK#	159672	P463
#LO LO LO	REACTOR WATER LEVEL SETPOINT RAISED AT NINE MILE POINT 1#	154932	P440
#SET POINT DRIFT IN	REACTOR WATER LEVEL SWITCH AT BROWNS FERRY 2#	155205	P 81
#SET POINT DRIFT IN	REACTOR WATER LEVEL SWITCH AT DRESDEN 2#	155197	P208
#	REACTOR WATER LEVEL SWITCH FAILS AT BRUNSWICK 1#	158565	P144
#	REACTOR WATER LEVEL SWITCH FAILS AT HATCH 2#	158674	P382
#	REACTOR WATER LEVEL SWITCH FAILS AT HATCH 2#	158675	P382
#	REACTOR WATER LEVEL SWITCH FAILS TO OPERATE AT BROWNS	154436	P 80
FERRY 2# #DRIFT IN	REACTOR WATER LEVEL SWITCH SET POINT AT FITZPATRICK#	161717	P294
3# #	REACTOR WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN	158749	P232
3# #	REACTOR WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN	158750	P233
#SET POINT DRIFT IN	REACTOR WATER LEVEL SWITCHES AT FITZPATRICK#	163361	P298
PILGRIM 1# #	REACTOR WATER LEVEL SWITCHES EXCEED SET POINT LIMIT AT	160345	P521
#	REACTOR WATER LEVEL SWITCHES FAIL AT BROWNS FERRY 3#	158537	P107
#SET POINT DRIFT IN	REACTOR WATER LEVEL TRANSMITTER AT BIG ROCK POINT#	158777	P 37
#SET POINT DRIFT IN RCIC	REACTOR WATER LEVEL TRIP SWITCH AT BROWNS FERRY 3#	159284	P113
#	REACTOR WATER SAMPLES INDICATE HIGH CHLORIDE CONCENTRATION	155291	P272
AT FITZPATRICK# #	REACTOR WATER SAMPLES NOT TAKEN AT HATCH 1#	159065	P331
#STCP CHANGE IN CONTAINMENT ATMOSPHERIC MONITOR	READING AT BRUNSWICK 1#	156188	P139
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#REFUEL FLOOR EXHAUST RAD MONITOR	READING DRIFTS AT PEACH BOTTOM 3#	160373	P495
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#RHR FLOW INDICATOR GIVES FALSE	READINGS AT BRUNSWICK 1#	160159	P152
#DRYWELL HYDROGEN OXYGEN ANALYZER GIVES FALSE	READINGS AT HATCH 2#	159310	P393
#CRD HYDRAULIC CONTROL UNIT INSTRUMENT	READINGS DRIFT AT FITZPATRICK#	159226	P285
#DRYWELL HYDROGEN OXYGEN RECORDER	READS ABNORMALLY AT HATCH 1#	159510	P325
#TORUS WATER LEVEL INSTRUMENT	READS DOWNSCALE AT HATCH 2#	158297	P307
#DRYWELL PRESSURE INDICATOR	READS HIGH AT BRUNSWICK 1#	154730	P123
#SUPPRESSION POOL LEVEL INDICATOR	READS HIGH OFFSCALE AT BRUNSWICK 2#	155534	P168
#BATTERY VOLTAGE INDICATION	READS LOW AT BRUNSWICK 1#	159138	P150
#AVERAGE POWER RANGE MONITOR	READS LOW AT MILLSTONE 1#	159289	P423
#MAIN STEAM LINE RADIATION MONITOR	READS LOW AT QUAD CITIES 1#	156004	P541
#TWO THROUGH-WALL CRACKS FOUND IN	REC CRITICAL LOOP WELDS AT COOPER#	155360	P243
#THROUGH-WALL CRACK FOUND ON	REC PUMP DISCHARGE PIPE WELD AT COOPER#	154053	P241
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#LOW PRESSURE ALARM	RECEIVED ON A HCU ACCUMULATOR AT HATCH 1#	155541	P307
#	RECIR LOOP SAMPLE ISOLATION VALVE FAILS AT MONTICELLO#	160374	P436
FERRY 1# #WATER IMPINGEMENT FROM	RECIRC LINE BREAK MIGHT DAMAGE RBCCW PIPING AT BROWNS	155207	P 53
#	RECIRC LOOP TEMPERATURE INSTRUMENTS OUT OF CALIBRATION AT	154654	P268
FITZPATRICK# #ERRONEOUS MANUAL OPERATION OF A RELAY TRIPS	RECIRC PUMP AT BROWNS FERRY 2#	155365	P 82
#	RECIRC PUMP DISCHARGE VALVE LEAK AT PILGRIM#	161824	P534
#	RECIRC PUMP MOTOR GENERATOR BREAKER OPENS AT QUAD-CITIES 2#	159689	P558
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MILLSTONE 1# #LEAK FOUND IN	RECIRC PUMP SUCTION TEST SECTION AT BRUNSWICK 2#	154732	P162
#	RECIRC SYSTEM FLOW CONTROL VALVE FAILS TO OPERATE AT	154437	P 80
BROWNS FERRY 2# #DRIFT IN	RECIRCULATION FLOW SENSORS AT OYSTER CREEK#	155560	P452
#REACTOR	RECIRCULATION MG SET TRIPPED AT BROWNS FERRY 2#	157736	P 88
#REACTOR	RECIRCULATION MOTOR-GENERATOR SET TRIPS AT BROWNS FERRY 2#	156213	P 86
#ONLY OPERABLE	RECIRCULATION PUMP ACCIDENTALLY TRIPPED AT BROWNS FERRY 2#	155594	P 82
#FEEDER BUS FAULT TRIPS	RECIRCULATION PUMP AT BROWNS FERRY 1#	156960	P 58
#	RECIRCULATION PUMP DISCHARGE VALVE FAILS TO OPEN FULLY AT	157039	P571
VERMONT YANKEE# #	RECIRCULATION PUMP LOW OIL LEVEL ALARM SHORTS AT BROWNS	156860	P 59
FERRY 1# #	RECIRCULATION PUMP MOTOR GENERATOR SET TRIPS AT QUAD	158629	P343
CITIES 1# #	RECIRCULATION PUMP MOTOR GENERATOR TRIPS AT BROWNS FERRY 1#	156062	P 60
#REACTOR	RECIRCULATION PUMP MOTOR GENERATOR TRIPS AT BRUNSWICK 2#	162709	P202
#	RECIRCULATION PUMP MOTOR GENERATOR TRIPS AT HATCH 1#	161795	P342
#	RECIRCULATION PUMP MOTOR OIL LEVEL IS LOW AT DUANE ARNOLD#	160265	P 11
#REACTOR	RECIRCULATION PUMP MOTOR SHORTS AT DUANE ARNOLD#	158609	P 9
#	RECIRCULATION PUMP MOTOR SNUBBER LEAKS AT VERMONT YANKEE#	159172	P574
#REACTOR	RECIRCULATION PUMP SPEED CONTROLLER FAILS AT DRESDEN 3#	160456	P236
#	RECIRCULATION PUMP TRIP SYSTEM NOT TESTED AT DUANE ARNOLD#	160202	P 15
#	RECIRCULATION PUMP TRIPS AT BROWNS FERRY 2#	155592	P 82
#REACTOR	RECIRCULATION PUMP TRIPS AT BROWNS FERRY 3#	160126	P115
#	RECIRCULATION PUMP TRIPS AT BRUNSWICK 1#	158607	P140
#REACTOR	RECIRCULATION PUMP TRIPS AT HATCH 1#	154887	P305
#REACTOR	RECIRCULATION PUMP TRIPS AT PILGRIM 1#	159445	P524
#	RECIRCULATION PUMP TRIPS ON LOW OIL PRESSURE AT HATCH 2#	159315	P394
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FAILURE CRITERION AT HATCH 1#	# RHR	SERVICE WATER PUMP COOLING DOES NOT MEET SINGLE	157123 P314
MONTICELLO#	# RHR	SERVICE WATER PUMP FAILS TO MEET REQUIREMENTS AT	156879 P434
	# RHR	SERVICE WATER PUMP FAILS TO START AT BRUNSWICK 1#	155555 P129
	# RHR	SERVICE WATER PUMP FAILS TO START AT BRUNSWICK 1#	155399 P134
	# RHR	SERVICE WATER PUMP FLOW DROPS SUDDENLY AT HATCH 2#	155433 P357
PERRY 1#	# RHR	SERVICE WATER PUMP TIMER OUT OF TOLERANCE AT BROWNS	156213 P 36
	# RHR	SERVICE WATER PUMPS FAIL AT HATCH 2#	158671 P381
	# RHR	SERVICE WATER PUMPS FAIL FLOW TEST AT BRUNSWICK 2#	154877 P170
FITZPATRICK#	# RHR	SERVICE WATER PUMPS FAIL TO PROVIDE SUFFICIENT FLOW AT	160227 P288
	# RHR	SERVICE WATER PUMPS FAIL TO START AT BRUNSWICK 2#	160466 P187
	# RHR	SERVICE WATER PUMPS FAILS TO START AT VERMONT YANKEE#	156992 P569
	# RHR	SERVICE WATER VALVE FAILS TO CLOSE AT COOPER#	161844 P256
CLOSE AT QUAD CITIES 2#	# RHR	SERVICE WATER VAULT BED PLATE DRAIN VALVE FAILS TO	153951 P551
	# RHR	SERVICE WATER VAULT PENETRATION LEAKS AT QUAD CITIES 2#	154915 P552
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	# RHR	SW PUMP INOPERABLE AT HATCH 1#	160145 P339
#INADEQUATE PIPE SUPPORTS FOUND ON	RHR	SYSTEM AT HATCH 1#	159614 P328
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	# RHR	SYSTEM SNUBBER FAILS AT PILGRIM 1#	155210 P504
	# RHR	TORUS RETURN VALVE FAILS TO OPERATE AT BROWNS FERRY 1#	160155 P 72
#CONTROL POWER TO	RHR	VALVE FAILS AT COOPER#	155588 P243
	# RHR	VALVE FOUND INOPERABLE AT BROWNS FERRY 3#	155341 P104
#HPCI AND	RHR	VALVE LEAK RATES EXCEED LIMITS AT HATCH 2#	161914 P404
#OPENING AND CLOSING TIME OF	RHR	VALVE OFF LIMITS AT HATCH 1#	154668 P301

	# RHR-SW CHECK VALVE FAILS TO SEAT AT VERMONT YANKEE*		160297 P976
#RHR HEAT EXCHANGER	RIB PLATE BUCKLES AT BRUNSWICK 2*		160296 P174
#SECTION OF A SPLIT	RING FOUND IN THE MAIN HPCI PUMP IMPELLER AT ARNOLD*		156226 P 6
	# RIP VALVE DOES NOT FULLY CLOSE AT BRUNSWICK 1*		156920 P142
#FOUR	RIP VALVES FAIL TO OPERATE PROPERLY AT BRUNSWICK 1*		154731 P123
	# RIP VALVES FOR CONTAINMENT AIR MONITORS FOUND CLOSED AT		155531 P171
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1*			
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#REACTOR DEPRESSURIZING SYSTEM BATTERY CELL FAILS AT BIG	ROCK POINT*		154904 P 32
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#SET POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG	ROCK POINT*		157076 P 35
#SET POINT DRIFT IN REACTOR WATER LEVEL TRANSMITTER AT BIG	ROCK POINT*		158777 P 37
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IN SENSORS CHANNEL OF REACTOR DEPRESSURIZING SYSTEM AT BIG	ROCK POINT*	#SETPOINT DRIFTS	158268 P 37
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                                                       #CONTROL  ROD DRIVE PUMP VIBRATES EXCESSIVELY AT BIG ROCK POINT*         155473 P 34
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*                                                      #CONTROL  ROD HAS NO POSITION INDICATION FOR ONE NOTCH AT BRUNSWICK 2  153735 P165
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                             #CONTROL ROD POSITION LIGHTS REMAIN ON WHEN  RODS MOVED AT OYSTER CREEK*                        158695 P456
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                                                       #CONTROL  ROOM CHLORINE MONITOR FAN INOPERABLE AT HATCH 1*            160810 P339
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                                                        #RHR PUMP ROOM COOLER FAILS TO START AT PEACH BOTTOM 2*              162468 P487
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                      #CONTAINMENT ATMOSPHERIC CONTROL CABLE NOT  ROUTED PROPERLY AT HATCH 1*                                158731 P320
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BRUNSWICK 1*                                                    # RSCS BLOCKS ROD WITHDRAWAL AT BRUNSWICK 2*                154662 P163
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                                                  #HPCI TURBINE RUPTURE DISC FAILS AT BROWNS FERRY 2*                        159340 P 91
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                                                     #THREE RWCU ISOLATION VALVES FAIL TO CLOSE AT BROWNS FERRY 1*           156978 P 59
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#RHR SYSTEM FAILS TO MEET SAFE SHUTDOWN EARTHQUAKE CRITERIA AT PILGRIM 1* 160490 P527
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SWITCH AT BROWNS FERRY 1*	# SET POINT DRIFT IN HPCI STEAM LINE SPACE TEMPERATURE	161796 P 77
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HATCH 1*	# SET POINT DRIFT IN HPCI STEAMLINE LOW PRESSURE SWITCH AT	161614 P342
SWITCH AT QUAD CITIES 1*	# SET POINT DRIFT IN HPCI TURBINE AREA HIGH TEMPERATURE	160451 P547
	# SET POINT DRIFT IN HPCI TURBINE PRESSURE SWITCH AT HATCH 2*	160519 P399
SWITCH AT DRESDEN 2*	# SET POINT DRIFT IN ISOLATION CONDENSER CONDENSATE FLOW	159263 P215
DRESDEN 2*	# SET POINT DRIFT IN ISOLATION CONDENSER FLOW SWITCH AT	160032 P211
	# SET POINT DRIFT IN LOW REACTOR LEVEL SWITCHES AT COOPER*	161622 P256
MILLSTONE 1*	# SET POINT DRIFT IN LOW WATER LEVEL SCRAM SWITCH AT	160923 P424
DRESDEN 2*	# SET POINT DRIFT IN LPCI DRYWELL HIGH PRESSURE SWITCH AT	163379 P222
	# SET POINT DRIFT IN LPCI PRESSURE PERMISSIVE AT PILGRIM 1*	157044 P507
SWITCHES AT MONTICELLO*	# SET POINT DRIFT IN MAIN STEAM LINE AREA TEMPERATURE	156044 P430
MILLSTONE 1*	# SET POINT DRIFT IN MAIN STEAM LINE HIGH FLOW SWITCH AT	155195 P420
AT BRUNSWICK 1*	# SET POINT DRIFT IN MAIN STEAM LINE HIGH RADIATION MONITOR	154892 P130
MONTICELLO*	# SET POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT	155191 P428
PEACH BOTTOM 2*	# SET POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT	162437 P486
QUAD CITIES 2*	# SET POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE SWITCH AT	159342 P557
DRESDEN 2*	# SET POINT DRIFT IN MAIN STEAM LINE PRESSURE SWITCH AT	163515 P223
BRUNSWICK 2*	# SET POINT DRIFT IN MAIN STEAM LINE RADIATION MONITOR AT	154559 P162
HATCH 2*	# SET POINT DRIFT IN MAIN STEAM LINE TEMPERATURE SWITCHES AT	157129 P361
YANKEE*	# SET POINT DRIFT IN MAIN STEAM RELIEF VALVES AT VERMONT	160930 P578
BROWNS FERRY 2*	# SET POINT DRIFT IN MAINSTEAM LINE HIGH FLOW SWITCH AT	163489 P 79
CREEK*	# SET POINT DRIFT IN MSIV LOW PRESSURE SENSORS AT OYSTER	159675 P464
	# SET POINT DRIFT IN PRESSURE RELIEF VALVE AT VERMONT YANKEE*	160535 P579
VERMONT YANKEE*	# SET POINT DRIFT IN PRESSURE SWITCH AT BROWNS FERRY 2*	161620 P119
BRUNSWICK 2*	# SET POINT DRIFT IN RCIC DIFFERENTIAL PRESSURE SWITCH AT	153480 P565
	# SET POINT DRIFT IN RCIC EXHAUST PRESSURE SWITCH AT	155317 P173
FITZPATRICK*	# SET POINT DRIFT IN RCIC FLOW INSTRUMENT AT HATCH 1*	154493 P298
BROWNS FERRY 2*	# SET POINT DRIFT IN RCIC FLOW SWITCH AT HATCH 1*	156096 P309
FITZPATRICK*	# SET POINT DRIFT IN RCIC HIGH STEAM FLOW SWITCH AT	154653 P281
AT HATCH 1*	# SET POINT DRIFT IN RCIC REACTOR WATER LEVEL TRIP SWITCH AT	159284 P113
BOTTOM 3*	# SET POINT DRIFT IN RCIC STEAM LINE LOW PRESSURE SWITCH AT	163404 P296
SWITCHES AT PEACH BOTTOM 2*	# SET POINT DRIFT IN RCIC TURBINE EXHAUST PRESSURE SWITCHES	155326 P307
OYSTER CREEK*	# SET POINT DRIFT IN RCIC TURBINE STEAM FLOW SWITCH AT PEACH	155347 P491
BROWNS FERRY 2*	# SET POINT DRIFT IN RCIC TURBINE STEAM LINE HIGH FLOW	161779 P484
2*	# SET POINT DRIFT IN REACTOR HIGH PRESSURE SCRAM SENSORS AT	159326 P460
POINT*	# SET POINT DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT	159336 P 90
POINT*	# SET POINT DRIFT IN REACTOR HIGH PRESSURE SWITCHES AT HATCH	160370 P396
POINT*	# SET POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK	157074 P 34
AT OYSTER CREEK 1*	# SET POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK	157076 P 35
BRUNSWICK 2*	# SET POINT DRIFT IN REACTOR LEVEL TRANSMITTER AT BIG ROCK	160170 P 41
BRUNSWICK 2*	# SET POINT DRIFT IN REACTOR LO-LC-LC WATER LEVEL SWITCHES	161873 P468
FERRY 3*	# SET POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT	159604 P178
YANKEE*	# SET POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT	161985 P193
BRUNSWICK 2*	# SET POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT BROWNS	157716 P109
OYSTER CREEK*	# SET POINT DRIFT IN REACTOR LOW PRESSURE SWITCH AT VERMONT	154714 P566
BRUNSWICK 1*	# SET POINT DRIFT IN REACTOR LOW PRESSURE SWITCHES AT	158755 P171
BRUNSWICK 1*	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SENSOR AT	160148 P465
BRUNSWICK 2*	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT	160301 P139
BRUNSWICK 2*	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT	156932 P143
CITIES 1*	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT	156938 P178
BRUNSWICK 2*	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT	161652 P197
2*	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCH AT QUAD	156912 P543
	# SET POINT DRIFT IN REACTOR LOW WATER LEVEL SWITCHES AT	161069 P102
FERRY 3*	# SET POINT DRIFT IN REACTOR PRESSURE SWITCH AT BROWNS FERRY	156948 P 87
BRUNSWICK 1*	# SET POINT DRIFT IN REACTOR PRESSURE SWITCH AT HATCH 2*	160450 P397
SWITCH AT PEACH BOTTOM 3*	# SET POINT DRIFT IN REACTOR PRESSURE SWITCHES AT BROWNS	153696 P102
CREEK*	# SET POINT DRIFT IN REACTOR VESSEL SHROUD LEVEL SWITCH AT	154554 P124
FERRY 2*	# SET POINT DRIFT IN REACTOR WATER CLEANUP TEMPERATURE	160431 P498
	# SET POINT DRIFT IN REACTOR WATER LEVEL SENSORS AT OYSTER	159672 P463
	# SET POINT DRIFT IN REACTOR WATER LEVEL SWITCH AT BROWNS	155205 P 81

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                                                    # SET POINT DRIFT IN REACTOR WATER LEVEL SWITCH AT DRESDEN 2# 155197 P208
                                                    # SET POINT DRIFT IN REACTOR WATER LEVEL SWITCHES AT          163361 P295
FITZPATRICK#                                        # SET POINT DRIFT IN REACTOR WATER LEVEL TRANSMITTER AT BIG   150777 P 37
ROCK POINT#                                         # SET POINT DRIFT IN RECIRCULATION VALVE SWITCH AT BROWNS     161934 P122
PERRY 3#                                            # SET POINT DRIFT IN REFUELING FLOOR RADIATION MONITOR AT     160526 P221
DRESDEN 2#                                          # SET POINT DRIFT IN RHR LOW PRESSURE PERMISSIVE SWITCH AT    155510 P  4
DUANE ARNOLD#                                       # SET POINT DRIFT IN RHR PUMP START RELAY AT HATCH 2#         156133 P358
                                                    # SET POINT DRIFT IN RPS LEVEL SWITCH AT DRESDEN 3#           161460 P237
FITZPATRICK#                                        # SET POINT DRIFT IN SHUTDOWN COOLING PERMISSIVE SWITCHES AT  158634 P281
PEACH BOTTOM 3#                                     # SET POINT DRIFT IN SHUTDOWN COOLING PRESSURE SWITCH AT      159410 P493
SWITCHES AT HATCH 2#                                # SET POINT DRIFT IN SHUTDOWN COOLING SYSTEM PRESSURE         158662 P379
                                                    # SET POINT DRIFT IN SOURCE RANGE MONITOR AT DRESDEN 3#       161456 P239
HATCH 1#                                            # SET POINT DRIFT IN STANDBY LIQUID CONTROL RELIEF VALVE AT   154889 P303
DRESDEN 3#                                          # SET POINT DRIFT IN STEAM LINE OVER TEMPERATURE SWITCH AT    155445 P229
BOTTOM 2#                                           # SET POINT DRIFT IN STEAM LINE PRESSURE SWITCH AT PEACH      161961 P485
                                                    # SET POINT DRIFT IN THREE RELIEF VALVES AT ARNOLD#           156225 P  6
NINE MILE POINT 1#                                  # SET POINT DRIFT IN TURBINE ANTICIPATORY TRIP SWITCH AT      159238 P442
AT HATCH 2#                                         # SET POINT DRIFT IN TURBINE CONTROL VALVE PRESSURE SWITCH    156118 P359
SWITCHES AT BROWNS FERRY 1#                         # SET POINT DRIFT IN TURBINE FIRST STAGE PRESSURE PERMISSIVE  159418 P 68
MILE POINT 1#                                       # SET POINT DRIFT IN TURBINE REACTOR SCRAM SWITCHES AT NINE   160313 P444
SWITCHES AT BROWNS FERRY 2#                         # SET POINT DRIFT OCCURS ON TURBINE PRESSURE PERMISSIVE       157763 P 88
QUAD CITIES 1#                                      # SET POINT DRIFT OF HIGH DRYWELL PRESSURE SWITCH FOUND AT    156964 P543
HATCH 2#                                            # SET POINT DRIFTS IN CORE SPRAY PUMP PRESSURE SWITCH AT      160456 P397
                          #CORE SPRAY PIPE BREAK DETECTOR  SET POINT EXCEEDS LIMIT AT FITZPATRICK#               155303 P270
                                        #INCORRECT        SET POINT FOUND IN REACTOR LEVEL SWITCH AT HATCH 1#     161951 P341
                                        #INCORRECT        SET POINT IN REACTOR LEVEL SWITCH AT BROWNS FERRY 2#    161866 P 99
                             #REACTOR HIGH PRESSURE SWITCH SET POINT INCORRECT AT HATCH 2#                       159305 P394
                                    #PRESSURE RELIEF      SET POINT INCORRECT FOR CORE SPRAY AT OYSTER CREEK#     160257 P457
                        #REACTOR WATER LEVEL SWITCHES EXCEED SET POINT LIMIT AT PILGRIM 1#                       160348 P321
                                                    # SET POINT MAIN STEAM LINE PRESSURE SWITCH AT HATCH 2#       161473 P401
                          #TURBINE FIRST STAGE PRESSURE SWITCH SET POINTS HIGH AT BROWNS FERRY 2#                159245 P114
                                  #REACTOR RECIRCULATION MG SET TRIPPED AT BROWNS FERRY 2#                       157736 P 88
                       #REACTOR RECIRCULATION MOTOR-GENERATOR SET TRIPS AT BROWNS FERRY 2#                       158213 P 86
                          #RECIRCULATION PUMP MOTOR GENERATOR SET TRIPS AT QUAD CITIES 1#                        158629 P343
                    #CORE SPRAY PUMP DISCHARGE SWITCH EXCEEDS SETPOINT AT BROWNS FERRY 1#                        158269 P 63
                      #REACTOR WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3#                             158749 P232
                      #REACTOR WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3#                             158780 P233
            #MAIN STEAM LINE HIGH FLOW SWITCH FAILS TO TRIP ON SETPOINT AT DRESDEN 3#                            158021 P233
            #MAIN STEAM LINE HIGH FLOW SENSORS FAIL TO TRIP ON SETPOINT AT OYSTER CREEK#                         163385 P470
        #TURBINE PRESSURE PERMISSIVE AND PRESSURE SWITCHES HAVE SETPOINT DRIFT AT BROWNS FERRY 3#                159108 P110
FITZPATRICK#                                        # SETPOINT DRIFT IN CONDENSATE STORAGE TANK LEVEL SWITCH AT   156197 P276
AT FITZPATRICK#                                     # SETPOINT DRIFT IN CORE SPRAY PIPE BREAK DETECTION SWITCHES  159313 P288
SYSTEM AT MILLSTONE 1#                              # SETPOINT DRIFT IN PRESSURE SWITCHES FOR REACTOR PROTECTION  158276 P422
AT OYSTER CREEK#                                    # SETPOINT DRIFT IN STANDBY GAS TREATMENT RADIATION MONITORS  155957 P451
VALVE AT HATCH 2#                                   # SETPOINT DRIFT IN STANDBY LIQUID CONTROL DISCHARGE RELIEF   157072 P367
DRESDEN 3#                                          # SETPOINT DRIFT IN STANDBY LIQUID CONTROL RELIEF VALVES AT   156010 P228
QUAD CITIES 2#                                      # SETPOINT DRIFT IN TORUS VACUUM BREAKER PRESSURE SWITCH AT   159346 P557
                              #CONTROL ROD BLOCK MONITOR SETPOINT DRIFTS AT BRUNSWICK 1#                         160467 P151
                           #REACTOR HIGH PRESSURE SWITCH SETPOINT DRIFTS AT HATCH 2#                             159588 P328
DEPRESSURIZING SYSTEM AT BIG ROCK POINT#            # SETPOINT DRIFTS IN SENSOR CHANNEL OF REACTOR                158266 P 36
DEPRESSURIZING SYSTEM AT BIG ROCK POINT#            # SETPOINT DRIFTS IN SENSOR CHANNEL OF REACTOR                158267 P 36
DEPRESSURIZING SYSTEM AT BIG ROCK POINT#            # SETPOINT DRIFTS IN SENSORS CHANNEL OF REACTOR               158268 P 37
                                    #ROD WITHDRAWAL BLOCK SETPOINT EXCEEDS LIMIT AT PEACH BOTTOM 2#              155380 P476
                                       #PRESSURE SWITCH  SETPOINT EXCEEDS LIMIT AT VERMONT YANKEE#              159525 P575
                          #INSTRUMENT AC UNDERVOLTAGE RELAY SETPOINT FALLS BELOW LIMIT AT DUANE ARNOLD#          163373 P 24
                           #REACTOR LOW WATER LEVEL SWITCH SETPOINT INCORRECT AT BROWNS FERRY 2#                 159608 P 90
                                        #APR MONITOR      SETPOINT INCORRECT AT FITZPATRICK#                     160228 P287
                       #TURBINE COMPARTMENT TEMPERATURE SWITCH SETPOINT IS HIGH AT PILGRIM 1#                    159242 P511
                             #REACTOR LOW WATER LEVEL SWITCH SETPOINT IS INCORRECT AT BRUNSWICK 2#               159356 P184
                                        #ADS TIMER        SETPOINT IS INCORRECT AT FITZPATRICK#                  159573 P289
                                                    # SETPOINT OF MSIV SCRAM LIMIT SWITCHES OUT OF LIMITS AT      155599 P227
DRESDEN 3#
                                  #LO LO LO REACTOR WATER LEVEL SETPOINT RAISED AT NINE MILE POINT 1#            154932 P440
                        #RPS, HPCI, RCIS, AND CS PRESSURE SWITCHES SETPOINTS DRIFT AT HATCH 2#                   159591 P386
                                        #APRM             SETPOINTS EXCEED LIMITS AT BRUNSWICK 1#                160204 P149
                           #HPCI AND RCIC STEAM PRESSURE SWITCH SETPOINTS INCORRECT AT FITZPATRICK#              159876 P288
                                #REACTOR HIGH PRESSURE SWITCH SETPOINTS TOO HIGH AT HATCH 1#                     159501 P323
                          #ELECTROMATIC RELIEF VALVE SENSOR SETPOINTS WERE TOO HIGH AT OYSTER CREEK#             160261 P458
                                        #RPS TRIP         SETTING NONCONSERVATIVE AT PILGRIM 1#                  160894 P529
                                                    # SEVEN CONTAINMENT ISOLATION VALVES FOUND CLOSED AT PEACH    160504 P499
BOTTOM 3#
                        #DIESEL GENERATOR FAILS TO START WITHIN SEVEN SECONDS AT HATCH 1#                        153506 P207
                                                    # SEVERAL CONTAINMENT ISOLATION VALVES' LEAK RATES EXCEED     159570 P479
LIMITS AT PEACH BOTTOM 2#
                                  #HYDROGEN RECOMBINER SHEATH TEMPERATURE LOW AT HATCH 2#                        154964 P350
              #CRYSTALLINE DEPOSITS FOUND ON DRYWELL SACRIFICIAL SHIELD AT HATCH 2#                              159328 P389
                                #CONTAINMENT GASEOUS MONITOR SHIFTS DOWNSCALE AT BRUNSWICK 1#                    156227 P133
                                                    # SHOCK SUPPRESSOR FAILS TO LOCK UP AT VERMONT YANKEE#        160097 P577
                                                    # SHOCK SUPPRESSOR INOPERABLE AT COOPER#                      162520 P259
                                  #CONTROL ROD MOVED WITH SHORTING LINKS INSTALLED AT BRUNSWICK 2#               163471 P172
                        #RECIRCULATION PUMP LOW OIL LEVEL ALARM SHORTS AT BROWNS FERRY 1#                        156860 P 89
                  #RCIC VALVE TRANSFERS OPEN WHEN BREAKER CONTACT SHORTS AT COOPER#                              157036 P244
                          #REACTOR RECIRCULATION PUMP MOTOR SHORTS AT DUANE ARNOLD#                              156809 P  9
                             #HPCI STEAM LINE DELTA P SWITCH SHORTS AT HATCH 2#                                  156883 P376
                       #SET POINT DRIFT IN REACTOR VESSEL SHROUD LEVEL SWITCH AT BRUNSWICK 1#                    154554 P124
                                        #FUEL             SHUFFLING ERROR AT BROWNS FERRY 2#                     160498 P 98
                                  #FISH KILL OCCURS AFTER A SHUT DOWN AT OYSTER CREEK#                           154622 P348
                                  #FISH KILL OCCURS AFTER A SHUT DOWN AT OYSTER CREEK#                           154622 P470
                        #DIESEL FIRE PUMP BOILS OVER FOLLOWING SHUTDOWN AT FITZPATRICK#                          153727 P267
                                #VACUUM BREAKER FAILURES FORCE SHUTDOWN AT HATCH 2#                              160180 P389
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BROWNS FERRY 1⊕	# SHUTDOWN BOARD ALTERNATE FEED BREAKER FAILS TO CLOSE AT	155524 P 93
#DIESEL GENERATOR FAILS TO START FOLLOWING LOSS OF	SHUTDOWN BOARD AT BROWNS FERRY 1⊕	158727 P 66
LACROSSE⊕	# SHUTDOWN CONDENSER CONTROL VALVES NOT TESTED ON TIME AT	161891 P416
#SET POINT DRIFT IN	SHUTDOWN COOLING PERMISSIVE SWITCHES AT FITZPATRICK⊕	158634 P281
#SET POINT DRIFT IN	SHUTDOWN COOLING PRESSURE SWITCH AT PEACH BOTTOM 3⊕	159410 P493
	# SHUTDOWN COOLING SUCTION VALVE FAILS TO OPEN AT HATCH 1⊕	158754 P321
#SET POINT DRIFT IN	SHUTDOWN COOLING SYSTEM PRESSURE SWITCHES AT HATCH 2⊕	158662 P379
#RHR SYSTEM FAILS TO MEET SAFE	SHUTDOWN EARTHQUAKE CRITERIA AT PILGRIM 1⊕	160490 P527
FERRY 2⊕	# SHUTDOWN EXTENDED BY ADMINISTRATIVE DECISION AT BROWNS	156029 P 84
#RCIC REMOTE	SHUTDOWN FLOW CONTROL LOOP FAILS AT HATCH 2⊕	154739 P352
#RHR FLOW INDICATOR ON REMOTE	SHUTDOWN PANEL FAILS AT BRUNSWICK 1⊕	158605 P144
#REMOTE	SHUTDOWN PANEL RHR FLOW INDICATOR FAILS AT BRUNSWICK 1⊕	163394 P153
#24KV	SHUTDOWN TRANSFORMER TRIPS AT PILGRIM 1⊕	155400 P502
#SPURIOUS	SIGNAL CLOSES HPCI STEAM SUPPLY VALVE AT FITZPATRICK⊕	160655 P261
#APRM FLOW	SIGNAL IS HIGHER THAN ACTUAL FLOW AT BROWNS FERRY 2⊕	157042 P 86
#SPURIOUS AUTO ISOLATION	SIGNAL MAKES HPCI INOPERABLE AT HATCH 2⊕	156938 P374
MILLSTONE⊕ #OYSTER SAMPLE	SILVER ACTIVITY EXCEEDS TEN TIMES CONTROL ACTIVITY AT	161827 P426
AT MILLSTONE⊕ #COBALT AND	SILVER ACTIVITY LEVELS EXCEED TEN TIMES CONTROL ACTIVITIES	161640 P425
#CONTAINMENT AIR LOCK DOORS OPENED	SIMULTANEOUSLY AT PILGRIM 1⊕	160258 P526
#OPERATION WITHIN A	SINGLE FAILURE CRITERIA REGION DISCOVERED AT HATCH 1⊕	158292 P319
#CAD SYSTEM DOES NOT MEET	SINGLE FAILURE CRITERION AT BRUNSWICK 1 AND 2⊕	161702 P194
#RHR SERVICE WATER PUMP COOLING DOES NOT MEET	SINGLE FAILURE CRITERION AT HATCH 1⊕	157123 P314
#UPDATE ON	SINGLE FAILURE CRITERION VIOLATION BY SB VALVE AT HATCH 2⊕	163451 P363
#SERVICE WATER HEADER ANTI-	SIPHON PIPE SNUBBER FAILS AT BRUNSWICK 1⊕	163391 P158
#OFF GAS STACK FILTER AND CARTRIDGE LOST ON	SITE BEFORE ANALYSIS AT ARNOLD⊕	154675 P 26
#OFF	SITE ELECTRIC POWER LINE TRIPS AT BROWNS FERRY 1⊕	159267 P 68
#ONE OFF-	SITE POWER SOURCE TRIPS AT PEACH BOTTOM 2⊕	156027 P477
#CONDENSATE STORAGE TANK BASE	SLAB SEAL MISSING AT HATCH 1⊕	157091 P312
	# SLC PUMP FLOW FALLS BELOW LIMIT AT COOPER⊕	156169 P244
CITIES 2⊕	# SLC RELIEF VALVES UNTIL PRESSURE EXCEEDS LIMIT AT QUAD	154916 P551
#MAIN TURBINE CONTROL VALVE CLOSURE SWITCH RESPONSE TIME IS	SLOW AT BRUNSWICK 2⊕	156930 P176
#CABLE VAULT	SMOKE DETECTION SYSTEM NOT TESTED AT MILLSTONE 1⊕	157602 P421
	# SMOKE DETECTOR ALARMS AT BROWNS FERRY 1⊕	163460 P 62
	# SMOKE DETECTOR SURVEILLANCE NOT PERFORMED AT HATCH 1⊕	159232 P329
	# SMOKE DETECTORS INSTALLED IMPROPERLY AT HATCH 1 AND 2⊕	162087 P346
	# SMOKE DETECTORS OUT OF SERVICE TOO LONG AT DRESDEN 2⊕	160824 P219
#REACTOR WATER CLEANUP PIPE AND	SNUBBER FAIL AT DRESDEN 3⊕	156207 P230
#SERVICE WATER HEADER ANTI-SIPHON PIPE	SNUBBER FAILS AT BRUNSWICK 1⊕	163391 P158
#SAFETY RELATED PIPE	SNUBBER FAILS AT BRUNSWICK 2⊕	159066 P177
#SERVICE WATER PIPE	SNUBBER FAILS AT BRUNSWICK 2⊕	162724 P198
#HYDRAULIC	SNUBBER FAILS AT HATCH 2⊕	158259 P364
#RHR SYSTEM	SNUBBER FAILS AT PILGRIM 1⊕	155210 P504
#SAFETY CLASS PIPE	SNUBBER FAILS AT VERMONT YANKEE⊕	155589 P568
#HYDRAULIC	SNUBBER FAILS TO LOCK AT OYSTER CREEK⊕	160235 P461
CREEK⊕	# SNUBBER FAILS TO LOCK IN COMPRESSION DIRECTION AT OYSTER	160295 P459
#CORE SPRAY	SNUBBER FAILS TO LOCK UP AT OYSTER CREEK⊕	160433 P464
#MULTIPLE HPCI TURBINE EXHAUST LINE	SNUBBER FAILURES AT PILGRIM 1⊕	160187 P522
#SERVICE WATER DISCHARGE LINE	SNUBBER FOUND INOPERABLE AT BRUNSWICK 2⊕	155320 P169
#HYDRAULIC	SNUBBER FOUND INOPERABLE AT FITZPATRICK⊕	154652 P268
#INSTRUMENT LINE	SNUBBER FOUND OVER EXTENDED AT BRUNSWICK 1⊕	159444 P139
	# SNUBBER INOPERABLE AT COOPER⊕	162525 P256
#HPCI EXHAUST LINE	SNUBBER INOPERABLE AT PILGRIM 1⊕	153465 P501
#PIPE	SNUBBER LEAKS AT HATCH 1⊕	158684 P326
#RECIRCULATION PUMP MOTOR	SNUBBER LEAKS AT VERMONT YANKEE⊕	159172 P574
#IMPROPERLY INSTALLED PIPE	SNUBBERS DISCOVERED AT OYSTER CREEK⊕	155601 P452
#HPCI PIPE	SNUBBERS FAIL AND PUMP CASING GASKET LEAKS AT PILGRIM 1⊕	159179 P515
#ECCS	SNUBBERS FAIL AT HATCH 1⊕	160138 P338
#HYDRAULIC	SNUBBERS FAIL TEST AT FITZPATRICK⊕	160203 P286
#THREE INACCESSIBLE	SNUBBERS FOUND INOPERABLE AT BRUNSWICK 1⊕	154513 P122
#THREE	SNUBBERS FOUND INOPERABLE AT BRUNSWICK 2⊕	163404 P175
#TWO SERVICE WATER SYSTEM	SNUBBERS INOPERABLE AT BRUNSWICK 1⊕	154506 P126
	# SNUBBERS LOCK UP AT HATCH 1⊕	158817 P320
#COMPUTER HAS A	SOFTWARE STALL AND GOES OFF LINE AT BRUNSWICK 2⊕	154677 P167
#WASTE OIL STORAGE AREA	SOIL CONTAMINATED AT HATCH 1 AND 2⊕	162080 P345
	# SOIL UNDER TURBINE BUILDING CONTAMINATED AT LACROSSE⊕	162539 P416
#DRYWELL EXHAUST	SOLENOID COIL NOT QUALIFIED AT BROWNS FERRY 1⊕	161892 P 76
#SAFETY RELIEF VALVE	SOLENOID INSULATION DEGRADED AT BRUNSWICK 2⊕	159135 P180
#UNQUALIFIED SPLICES DISCOVERED ON MSIV	SOLENOID VALVE POWER CABLES AT MONTICELLO⊕	156812 P433
#CONTROL ROD DRIVE SCRAM PILOT	SOLENOIDS NOT TESTED ON TIME AT NINE MILE POINT⊕	163384 P447
PILGRIM 1⊕ #A FIRE IN	SOME ELECTRICAL RACEWAYS COULD EFFECT REDUNDANT TRAINS AT	154694 P502
BRUNSWICK 1⊕	# SOME TORUS WATER DRAINED THROUGH CORE SPRAY SYSTEM AT	155314 P133
#ADS TIMER RELAY OPENS TOO	SOON AT BROWNS FERRY 1⊕	154917 P 51
#PLANT SERVICE WATER PUMP SEQUENCED TO BUS TOO	SOON AT HATCH 2⊕	156122 P360
#CORE SPRAY PUMP STARTS TOO	SOON AT PEACH BOTTOM 3⊕	160332 P498
#SET POINT DRIFT IN	SOURCE RANGE MONITOR AT DRESDEN 3⊕	161456 P239
	# SOURCE RANGE MONITOR FAILS TO WITHDRAW AT BRUNSWICK 2⊕	161652 P184
	# SOURCE RANGE MONITOR RECORDER PIN STICKS AT FITZPATRICK⊕	158625 P279
2⊕	# SOURCE RANGE MONITORS FAIL TO DRIVE INTO CORE AT BRUNSWICK	159603 P179
INDICATION AT BRUNSWICK 2⊕	# SOURCE RANGE MONITORS FAIL TO MOVE AND GIVE UNUSUAL	158635 P179
#ONE OFF-SITE POWER	SOURCE TRIPS AT PEACH BOTTOM 2⊕	156027 P477
#ELECTRICAL POWER	SOURCES NOT TESTED WHEN REQUIRED AT HATCH 2⊕	154942 P350
#SET POINT DRIFT IN HPCI STEAM LINE	SPACE TEMPERATURE SWITCH AT BROWNS FERRY 1⊕	161796 P 77
#ONLY ONE ISOLATION VALVE FOUND ON TWO	SPARE LINES PENETRATING CONTAINMENT AT BROWNS FERRY 1⊕	155200 P 52
#INCORRECT HPCI STEAM LINE	SPARE TEMPERATURE SWITCH INSTALLED AT BROWNS FERRY 1⊕	157030 P 58
#BLOWN FUSES CAUSE LOSS OF CORE SPRAY	SPARGER BREAK DETECTION ALARM AT DUANE ARNOLD⊕	158620 P 10
#BOTH CORE SPRAY	SPARGER BREAK DETECTION ALARM SYSTEMS INOPERABLE AT ARNOLD⊕	154710 P 1
#TWO CRACKS FOUND IN THE CORE SPRAY	SPARGER PIPING AT OYSTER CREEK⊕	154449 P450

#CRACK DISCOVERED IN CORE SPRAY	SPARGER WELD AT VERMONT YANKEE*	163501 P577
#LINEAR INDICATIONS FOUND IN CORE SPRAY	SPARGERS AT PILGRIM 1*	155211 P504
YANKEE* #TECH	SPEC LIMIT FOR RPS DELAY TIME NON-CONSERVATIVE AT VERMONT	155469 P569
#THREE UNAUTHORIZED TRANSFERS OF	SPECIAL NUCLEAR MATERIAL AT HATCH 1*	161949 P343
#RDS BATTERY HAS LOW	SPECIFIC GRAVITY AT BIG ROCK POINT*	159256 P 39
#DIESEL FIRE PUMP BATTERY HAS LOW	SPECIFIC GRAVITY AT FITZPATRICK*	159496 P284
#CONTAINMENT PRESSURE SWITCHES TRIP OUT OF	SPECS AT DUANE ARNOLD*	160268 P 11
#STANDBY SERVICE WATER PUMP DOES NOT MEET OPERATING	SPECS AT HATCH 1*	157721 P302
#HPCI TURBINE DOES NOT REACH RATED	SPEED AT DUANE ARNOLD*	160275 P 10
#HPCI STUCK ON HIGH	SPEED AT QUAD CITIES 2*	159524 P558
#HPCI TURBINE FAILS TO REACH RATED	SPEED AT VERMONT YANKEE*	156151 P570
#RCIC TRIPPED ON OVERSPEED DUE TO LOSS OF	SPEED CONTROL AT BROWNS FERRY 3*	157636 P107
#RCIC FAILS TO RESPOND TO	SPEED CONTROL AT HATCH 1*	159502 P324
#DIESEL GENERATOR	SPEED CONTROL LOST AT BROWNS FERRY 1*	154441 P 47
#REACTOR RECIRCULATION PUMP	SPEED CONTROLLER FAILS AT DRESDEN 3*	160456 P236
#RCIC	SPEED FEEDBACK MAGNETIC PICKUP CONNECTOR FAILS AT BROWNS	160115 P114
FERRY 3*		
#DG FAILS TO TRIP TO IDLE	SPEED FROM LOAD AT BROWNS FERRY 3*	160216 P116
#RECIRC PUMP RUNBACK RESULTS IN PUMP	SPEED MISMATCH AT MILLSTONE 1*	154444 P419
#HPCI TURBINE	SPEED SWINGS AT HATCH 1*	152790 P319
#DIESEL OIL	SPILLED INTO CANAL AT PEACH BOTTOM 2*	159483 P480
#UNQUALIFIED	SPLICES AND TERMINAL BLOCKS DISCOVERED AT BIG ROCK POINT*	163356 P 46
#CABLES	SPLICES ARE NOT QUALIFIED AT BRUNSWICK 2*	159158 P180
MONTICELLO* #UNQUALIFIED	SPLICES DISCOVERED ON MSIV SOLENOID VALVE POWER CABLES AT	156012 P433
#SECTION OF A	SPLIT RING FOUND IN THE MAIN HPCI PUMP IMPELLER AT ARNOLD*	156226 P 6
#PRESSURE RELIEF SET POINT INCORRECT FOR CORE	SPRAY AT OYSTER CREEK*	160257 P457
#CORE	SPRAY BOOSTER PUMP VENT LINE LEAKS AT OYSTER CREEK*	160432 P464
#CORE	SPRAY COOLER INOPERABLE AT BROWNS FERRY 3*	161619 P120
#SET POINT DRIFT IN CORE	SPRAY DIFFERENTIAL PRESSURE SWITCH AT DUANE ARNOLD*	155514 P 5
#CORE	SPRAY DISCHARGE SWITCH FAILS TO OPERATE AT BROWNS FERRY 2*	160285 P 90
#CONTAINMENT	SPRAY HEAT EXCHANGER TUBES LEAK AT OYSTER CREEK*	155993 P483
#CONTAINMENT	SPRAY ISOLATION VALVE FAILS AT NINE MILE POINT 1*	158697 P461
#REACTOR STARTED UP WITH ONE CORE	SPRAY LOOP INOPERABLE AT MONTICELLO*	158553 P434
#POWER TO CORE	SPRAY LOOP VALVES LOST AT PEACH BOTTOM 3*	160030 P492
#CONTAINMENT	SPRAY OUTBOARD ISOLATION VALVE FAILS TO CLOSE AT PEACH	159095 P494
BOTTOM 3*		
#SET POINT DRIFT IN CORE	SPRAY PERMISSIVE SWITCH AT FITZPATRICK*	154664 P265
#SETPOINT DRIFT IN CORE	SPRAY PIPE BREAK DETECTION SWITCHES AT FITZPATRICK*	159313 P288
#CORE	SPRAY PIPE BREAK DETECTOR SET POINT EXCEEDS LIMIT AT	155303 P270
FITZPATRICK*		
#CORE	SPRAY PIPE CRACKS DISCOVERED AT QUAD-CITIES 2*	155987 P583
#CORE	SPRAY PIPE SUPPORTS DAMAGED AT MILLSTONE 1*	156005 P421
#FLAW FOUND IN CORE	SPRAY PIPE WELD AT COOPER*	156899 P246
#CRACKS DISCOVERED IN CORE	SPRAY PIPING AT QUAD CITIES 1*	160091 P548
#SET POINT DRIFT IN CORE	SPRAY PRESSURE SWITCH AT DUANE ARNOLD*	160353 P 17
#SET POINT DRIFT IN CONTAINMENT	SPRAY PRESSURE SWITCH AT DUANE ARNOLD*	160460 P 18
#SET POINT DRIFT IN CORE	SPRAY PRESSURE SWITCH AT PEACH BOTTOM 2*	160550 P483
#SET POINT DRIFT IN CONTAINMENT	SPRAY PRESSURE SWITCHES AT DUANE ARNOLD*	155512 P 5
#SET POINT DRIFT IN CONTAINMENT	SPRAY PRESSURE SWITCHES AT OYSTER CREEK*	161763 P467
#SET POINT DRIFT IN CORE	SPRAY PRESSURE SWITCHES AT OYSTER CREEK*	162044 P469
#CORE	SPRAY PUMP AREA COOLER FAN THERMOSTAT SET ABOVE LIMIT AT	159399 P 68
BROWNS FERRY 1*		
#SET POINT DRIFT IN CORE	SPRAY PUMP DISCHARGE PRESSURE SWITCH AT PEACH BOTTOM 3*	154017 P488
#CORE	SPRAY PUMP DISCHARGE SWITCH EXCEEDS SETPOINT AT BROWNS	158269 P 63
FERRY 1*		
#CORE	SPRAY PUMP FAILS TO START AND VALVE FAILS TO OPEN AT	158613 P508
PILGRIM 1*		
#DIESEL FIRE/CORE	SPRAY PUMP FAILS TO START IN TIME AT BIG ROCK POINT*	163389 P 44
#SET POINT DRIFTS IN CORE	SPRAY PUMP PRESSURE SWITCH AT HATCH 2*	160455 P397
#CORE	SPRAY PUMP STARTS TOO SOON AT PEACH BOTTOM 3*	160332 P498
#CORE	SPRAY PUMP SUCTION VENT LINE LEAKS AT OYSTER CREEK*	160863 P466
#CORE	SPRAY PUMPS ACTUATE AT OYSTER CREEK*	160236 P460
#CORE	SPRAY PUMPS FAIL TO START AT COOPER*	159565 P247
#CORE	SPRAY RELIEF VALVE LEAKS AT DRESDEN 3*	155194 P228
#CORE	SPRAY RELIEF VALVE LEAKS AT DRESDEN 3*	156987 P231
#CORE	SPRAY SNUBBER FAILS TO LOCK UP AT OYSTER CREEK*	160433 P464
#BLOWN FUSES CAUSE LOSS OF CORE	SPRAY SPARGER BREAK DETECTION ALARM AT DUANE ARNOLD*	158620 P 10
#BOTH CORE	SPRAY SPARGER BREAK DETECTION ALARM SYSTEMS INOPERABLE AT	154710 P 1
ARNOLD*		
#TWO CRACKS FOUND IN THE CORE	SPRAY SPARGER PIPING AT OYSTER CREEK*	154449 P450
#CRACK DISCOVERED IN CORE	SPRAY SPARGER WELD AT VERMONT YANKEE*	163501 P577
#LINEAR INDICATIONS FOUND IN CORE	SPRAY SPARGERS AT PILGRIM 1*	155211 P504
#SET POINT DRIFT IN CORE	SPRAY SWITCH AT BROWNS FERRY 1*	163338 P 78
#SET POINT DRIFT IN CONTAINMENT	SPRAY SWITCHES AT OYSTER CREEK*	162041 P470
#SOME TORUS WATER DRAINED THROUGH CORE	SPRAY SYSTEM AT BRUNSWICK 1*	155314 P133
#CORE	SPRAY SYSTEM INOPERABLE AT OYSTER CREEK 1*	160902 P465
#CORE	SPRAY SYSTEM PUMPS INOPERABLE AT OYSTER CREEK*	162045 P469
#NO WATER FLOWS THROUGH CORE	SPRAY SYSTEM ROOM COOLER AT BROWNS FERRY 1*	157700 P 62
#DIESEL GENERATOR AND CORE	SPRAY TESTS NOT PERFORMED ON TIME AT HATCH 2*	156988 P364
* #CORE	SPRAY TC CORE PLATE DELTA P ALARM ACTIVATED AT DUANE ARNOLD	158564 P 14
#CORE	SPRAY VALVE FAILS TO OPEN AT FITZPATRICK*	153729 P266
#CORE	SPRAY VALVE FAILS TO OPEN AT FITZPATRICK*	154660 P267
#CONTAINMENT	SPRAY VALVE FAILS TO OPEN AT HATCH 1*	156991 P318
#CORE	SPRAY VALVE FAILS TO OPEN AT PILGRIM 1*	160251 P525
#CORE	SPRAY VALVE FAILS TO OPEN AT QUAD CITIES 2*	160067 P589
#CORE	SPRAY VALVE FAILS TO REOPEN DURING TEST AT FITZPATRICK*	154650 P262
#UPDATE ON CONTAINMENT	SPRAY VALVE FAILURE AT PEACH BOTTOM 3*	163583 P494
#FIRE WATCH REMOVED FROM CABLE	SPREADING ROOM AT ARNOLD*	154674 P 3
#PROPER FIRE WATCH NOT ESTABLISHED IN CABLE	SPREADING ROOM AT DUANE ARNOLD*	158304 P 8
#REACTOR BUILDING HVAC ROOM	SPRINKLER SYSTEM INOPERABLE AT HATCH 1*	162058 P345
#DIESEL GENERATOR DAY TANK ROOM FIRE	SPRINKLERS OUT OF SERVICE TOO LONG AT DUANE ARNOLD*	158665 P 28
# SPURIOUS AUTO ISOLATION SIGNAL MAKES HPCI INOPERABLE AT		156958 P374
HATCH 2*		
# SPURIOUS HPCI INITIATION OCCURS AT HATCH 1*		156997 P318
#ROD WORTH MINIMIZER GIVES	SPURIOUS ROD BLOCKS AT BRUNSWICK 1*	160206 P151

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FITZPATRICK
                                                  # SPURIOUS SIGNAL CLOSES HPCI STEAM SUPPLY VALVE AT          19e055 P201
                          #TORUS HYDROGEN MONITOR ANNUNCIATES  SPURIOUSLY AT BROWNS FERRY 1#                    160335 P 71
                        #ROD BLOCK MONITOR PANEL ILLUMINATES  SPURIOUSLY AT BRUNSWICK 1#                      159100 P139
                          #REACTOR VESSEL RELEIF VALVE OPENS  SPURIOUSLY AT PILGRIM 1#                       160497 P528
                          #REACTOR VESSEL RELIEF VALVE OPENS  SPURIOUSLY AT PILGRIM 1#                       160559 P532
                                #TURBINE COMPUTER SYSTEM      SPURIOUSLY SCRAMS REACTOR AT COOPER#           159233 P252
PILGRIM 1#
                                                  # SR-90 CONCENTRATION IN MILK SAMPLE EXCEEDS REPORT LIMIT AT 154592 P504
                                      #A NUMBER OF  SRM PROBLEMS WERE ENCOUNTERED AT FITZPATRICK#           154535 P263
ARNOLD#                                  #OFF GAS  STACK FILTER AND CARTRIDGE LOST CA IODITE BEFORE ANALYSIS AT 154675 P 26
DUANE ARNOLD#
                                                  # STACK FILTERS NOT ANALYZED FOR ALPHAS DURING APRIL AT      159369 P 27
                                                  # STACK GAS GRAB SAMPLE PUMP TRIPS AT PILGRIM 1#             159546 P512
                                        #PLANT    STACK GAS MONITORING SYSTEM INOPERABLE AT FITZPATRICK#      155423 P271
                                                  # STACK GAS RADIATION MONITOR FLOW LOW AT FITZPATRICK#       154644 P263
                                  #LOSS OF FLOW TO  STACK GAS SAMPLING SYSTEM AT NINE MILE POINT 1#           160303 P441
                              #REACTOR BUILDING VENT  STACK RADIATION MONITOR FAILS AT HATCH 1#               155588 P305
                                          #MAIN   STACK RADIATION MONITOR SAMPLE PUMPS FAIL AT HATCH 1#       157122 P312
                                                  # STACK RELEASES NOT MONITORED AT OYSTER CREEK 1#            160237 P462
                        #SET POINT DRIFT IN TURBINE FIRST  STAGE PRESSURE PERMISSIVE SWITCHES AT BROWNS FERRY 1# 159418 P 69
                                    #TURBINE FIRST  STAGE PRESSURE SWITCH SET POINTS HIGH AT BROWNS FERRY 3#   159245 P114
                                #COMPUTER HAS A SOFTWARE  STALL AND GOES OFF LINE AT BRUNSWICK 2#           154077 P167
                        #DRYWELL TO TEMPERATURE RECORDER WAS NOT  STAMPING AT HATCH 1#                      159869 P327
                              #DRYWELL TEMPERATURE RECORDER WAS  STAMPING UPSCALE AT HATCH 1#               159673 P326
                                                  # STANDBY DIESEL SERVICE WATER PUMP TRIPS AT HATCH 1#        153505 P298
AT HATCH 1#
                                                  # STANDBY GAS TREATMENT CHARCOAL BED LEAKS AT QUAD CITIES 1# 154920 P539
#                                                 # STANDBY GAS TREATMENT FAN FAILS TO MEET FLOW REQUIREMENTS  153740 P300
FAILS TO OPEN AT PEACH BOTTOM 2#                  # STANDBY GAS TREATMENT FAN TRIPS ON OVERLOAD AT OYSTER CREEK 159328 P462
2#                                                # STANDBY GAS TREATMENT FILTER ASSEMBLY ISOLATION VALVE      161071 P483
TIME AT BRUNSWICK 2#                              # STANDBY GAS TREATMENT FILTER TRAIN FAILS TO START AT HATCH 156935 P372
                                                  # STANDBY GAS TREATMENT OPERABILITY TEST NOT PERFORMED ON    158632 P178
HATCH 1#                                          # STANDBY GAS TREATMENT POWER CABLES UNDERSIZED AT HATCH 2#  156881 P369
                                                  # STANDBY GAS TREATMENT PROCEDURE CHANGES NOT REVIEWED AT    160277 P321
                                #SETPOINT DRIFT IN  STANDBY GAS TREATMENT RADIATION MONITORS AT OYSTER CREEK#  155537 P451
                                                  # STANDBY GAS TREATMENT SYSTEM FAILS AT FITZPATRICK#         159531 P237
OYSTER CREEK#                                     # STANDBY GAS TREATMENT SYSTEM FLOWRATE FALLS BELOW LIMIT AT 155636 P432
                                                  # STANDBY GAS TREATMENT SYSTEM INOPERABLE AT PILGRIM 1#      159522 P517
OYSTER CREEK#                                     # STANDBY GAS TREATMENT SYSTEM OPERATED IN DEGRADED MODE AT  160324 P463
                                      #FLOW LOST IN  STANDBY GAS TREATMENT SYSTEM TRAIN AT HATCH 2#           156920 P363
                                                  # STANDBY GAS TREATMENT SYSTEM TRIPS AT DRESDEN 3#           161002 P236
                                                  # STANDBY GAS TREATMENT TRAIN FAILS TO RESET AT BRUNSWICK 1# 156176 P136
                                                  # STANDBY GAS TREATMENT UNIT FAILS AT OYSTER CREEK#          155924 P454
                                #SETPOINT DRIFT IN  STANDBY LIQUID CONTROL DISCHARGE RELIEF VALVE AT HATCH 2#  157072 P367
BROWNS FERRY 3#                                   # STANDBY LIQUID CONTROL PUMP BREAKER TRIPS INADVERTENTLY AT  161036 P121
HATCH 2#                                          # STANDBY LIQUID CONTROL PUMP FAILS OPERABILITY TEST AT      156937 P368
                              #SET POINT DRIFT IN  STANDBY LIQUID CONTROL RELIEF VALVE AT HATCH 1#            154839 P303
BRUNSWICK 1#                                      # STANDBY LIQUID CONTROL RELIEF VALVE FAILS TO OPEN AT       159199 P147
                                #SETPOINT DRIFT IN  STANDBY LIQUID CONTROL RELIEF VALVES AT DRESDEN 3#        156010 P228
                                                  # STANDBY LIQUID CONTROL SYSTEM INOPERABLE AT HATCH 2#       159670 P389
                                        #LEAK RATE OF  STANDBY LIQUID CONTROL VALVE EXCEEDS LIMIT AT MONTICELLO#  156240 P429
AT HATCH 1#
                                                  # STANDBY SERVICE WATER PUMP DOES NOT MEET OPERATING SPECS   157721 P302
                                                  # STANDBY SERVICE WATER PUMP INOPERABLE AT HATCH 2#          161770 P402
                          #CORE SPRAY PUMP FAILS TO  START AND VALVE FAILS TO OPEN AT PILGRIM 1#              158613 P508
                      #RHR SERVICE WATER PUMP FAILS TO  START AT BRUNSWICK 1#                                 155535 P129
                      #RHR SERVICE WATER PUMP FAILS TO  START AT BRUNSWICK 1#                                 155379 P134
                      #RHR SERVICE WATER PUMPS FAIL TO  START AT BRUNSWICK 2#                                 160466 P187
              #CONTROL BUILDING EMERGENCY FILTER FAN FAILS TO  START AT BRUNSWICK 2#                          162727 P197
                            #CORE SPRAY PUMPS FAIL TO  START AT COOPER#                                       159505 P247
                          #DIESEL GENERATOR FAILS TO  START AT DRESDEN 3#                                     157050 P231
                          #DIESEL GENERATOR FAILS TO  START AT DUANE ARNOLD#                                  158058 P 15
                          #DIESEL GENERATOR FAILS TO  START AT HATCH 1#                                       156975 P311
                          #DIESEL GENERATOR FAILS TO  START AT HATCH 1#                                       158083 P325
          #RB RADIATION MONITOR SAMPLE PUMP FAILS TO  START AT HATCH 1#                                       159367 P326
    #REACTOR BLDG VENT RAD MONITOR SAMPLE PUMPS FAIL TO  START AT HATCH 1#                                    159248 P335
                              #LPCI PUMP FAILS TO  START AT HATCH 2#                                         156994 P370
          #STANDBY GAS TREATMENT FILTER TRAIN FAILS TO  START AT HATCH 2#                                     156935 P372
                          #DIESEL GENERATOR FAILS TO  START AT HATCH 2#                                       160441 P396
                #SERVICE WATER DIESEL GENERATOR FAILS TO  START AT LACROSSE#                                  160434 P415
                          #RHR PUMP ROOM COOLER FAILS TO  START AT PEACH BOTTOM 2#                            160434 P481
                          #RHR PUMP ROOM COOLER FAILS TO  START AT PEACH BOTTOM 2#                            162488 P487
                                  #RHR PUMP FAILS TO  START AT QUAD-CITIES 2#                                 160504 P561
                      #RHR SERVICE WATER PUMPS FAILS TO  START AT VERMONT YANKEE#                             155992 P569
                          #DIESEL GENERATOR FAILS TO  START FOLLOWING LOSS OF SHUTDOWN BOARD AT BROWNS FERRY 1# 158727 P 66
                          #DIESEL GENERATOR FAILS TO  START FROM THE CONTROL ROOM AT QUAD CITIES 1#           156806 P541
                          #DIESEL GENERATOR FAILS TO  START IN REQUIRED TIME AT HATCH 2#                      154574 P348
            #DIESEL FIRE/CORE SPRAY PUMP FAILS TO  START IN TIME AT BIG ROCK POINT#                           163389 P 44
                          #DIESEL GENERATOR FAILS TO  START IN TIME AT BRUNSWICK 1#                           161075 P158
                    #SET POINT DRIFT IN RHR PUMP  START RELAY AT HATCH 2#                                    156133 P358
                          #DIESEL GENERATOR FAILS TO  START WITHIN SEVEN SECONDS AT HATCH 1#                  163506 P297
MONTICELLO#                                 #REACTOR  STARTED UP WITH ONE CORE SPRAY LOOP INOPERABLE AT       158553 P434
                                            #REACTOR  STARTED WITH OFF-GAS MONITORS INOPERABLE AT PEACH BOTTOM 2# 154736 P476
                                  #CORE SPRAY PUMP  STARTS TOO SOON AT PEACH BOTTOM 3#                       160332 P494
          #INOPERABLE PIPING SUPPORT NOT REPAIRED PRIOR TO  STARTUP AT BRUNSWICK 2#                           153733 P164
                        #RCIC TURBINE TRIPPED ON REACTOR  STARTUP AT HATCH 1#                                160250 P318
                              #CHPF EXCEEDS LIMIT DURING  STARTUP AT HATCH 2#                                154761 P352
      #ONE CONTROL ROD NOT PULLED TO TARGET POSITION DURING  STARTUP AT HATCH 2#                               156132 P357
                              #RCIC TRIPS ON MANUAL  STARTUP AT HATCH 2#                                     159127 P381
                                                  # STARTUP RANGE MONITORS FAIL AT BRUNSWICK 1#               159161 P138
                                #WRONG INDICATION ON  STARTUP RANGE RECORDER AT FITZPATRICK#                  158867 P202
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OYSTER CREEK•	#MAIN	STATION AND DG BATTERIES NOT TESTED WHEN REQUIRED AT	155443	P454
#EMERGENCY	STATION BATTERIES FAIL TO MAINTAIN THEIR LOADS AT HATCH 2•	156117	P359
HATCH 2•	#	STATION BATTERY CHARGERS FAIL TO MAINTAIN REQUIRED LOAD AT	156121	P360
#CONTINUOUS AIR SAMPLING	STATION INOPERABLE AT VERMONT YANKEE•	161048	P581
#NO FAILURE -	STATION ORGANIZATION CHANGED AT PILGRIM 1•	160229	P523
#HPCI STOP VALVE FAILS TO	STAY OPEN AT BROWNS FERRY 1•	153490	P 46
#RCIC DRAIN LINE LEAKS	STEAM AT MONTICELLO•	160210	P437
#MAIN	STEAM BYPASS VALVE INOPERABLE AT PEACH BOTTOM 2•	161618	P485
#HPCI HIGH	STEAM FLOW INSTRUMENT FAILS DOWNSCALE AT COOPER•	154051	P241
#SET POINT DRIFT IN HPCI	STEAM FLOW SENSOR AT PEACH BOTTOM 2•	160485	P481
#SET POINT DRIFT IN RCIC HIGH	STEAM FLOW SWITCH AT FITZPATRICK•	154653	P261
#SET POINT DRIFT IN RCIC TURBINE	STEAM FLOW SWITCH AT PEACH BOTTOM 3•	155347	P491
#MAIN	STEAM ISOLATION SWITCHES FAIL TO OPERATE AT BROWNS FERRY 3•	158235	P106
#HPCI	STEAM ISOLATION VALVE CLOSES AT FITZPATRICK•	155517	P273
#MAIN	STEAM ISOLATION VALVE CLOSES TOO FAST AT BROWNS FERRY 3•	160080	P116
#MAIN	STEAM ISOLATION VALVE FAILS TO CLOSE AT BIG ROCK POINT•	161674	P 42
#MAIN	STEAM ISOLATION VALVE FAILS TO CLOSE AT HATCH 2•	158245	P380
#MAIN	STEAM ISOLATION VALVE FAILS TO CLOSE AT QUAD CITIES 1•	158708	P544
#MAIN	STEAM ISOLATION VALVE FAILS TO CLOSE IN TIME AT COOPER•	163531	P260
#RCIC	STEAM ISOLATION VALVE LEAKS AT BRUNSWICK 2•	162720	P200
#MAIN	STEAM ISOLATION VALVE LEAKS AT FITZPATRICK•	158612	P282
FITZPATRICK•	#MAIN	STEAM ISOLATION VALVE LIMIT SWITCH FAILS TO RESET AT	163403	P296
CLOSED AT QUAD CITIES 2•	#MAIN	STEAM ISOLATION VALVES CLOSE TOO FAST AND FAIL TO INDICATE	160835	P559
#MAIN	STEAM ISOLATION VALVES EXCEED LEAK RATE AT BROWNS FERRY 2•	160921	P 95
#LEAK RATE OF THREE MAIN	STEAM ISOLATION VALVES EXCEED LIMIT AT BROWNS FERRY 1,•	154617	P 48
#MAIN	STEAM ISOLATION VALVES FAIL TO CLOSE AT NINE MILE POINT 1•	160001	P441
1•	#TWO MAIN	STEAM ISOLATION VALVES FAIL TO MEET LEAK RATE AT MILLSTONE	160060	P423
BRUNSWICK 2•	#	STEAM LEAK DETECTION LOGIC TOPAZ INVERTER TRIPS AT	155323	P165
#POWER SUPPLY FOR RCIC	STEAM LEAK DETECTION SYSTEM FAILS TWICE AT HATCH 2•	156621	P367
#	STEAM LEAK IN CONDENSER DRAIN LINE AT MONTICELLO•	160918	P437
#SET POINT DRIFT IN MAIN	STEAM LINE AREA TEMPERATURE SWITCHES AT MONTICELLO•	156044	P430
#CONTAINMENT DESIGN REVIEWED FOR	STEAM LINE BREAKS AT BIG ROCK POINT•	159293	P 39
#HPCI	STEAM LINE DELTA P FLOW SWITCH INOPERABLE AT HATCH 2•	159306	P391
#HPCI	STEAM LINE DELTA P SWITCH SHORTS AT HATCH 2•	156883	P376
#SET POINT DRIFT IN HPCI	STEAM LINE DP SWITCH AT HATCH 2•	161872	P400
1•	#MAIN	STEAM LINE DRAIN ISOLATION VALVE FAILS TO CLOSE AT PILGRIM	159288	P520
#RCIC	STEAM LINE DRAIN PIPE LEAKS AT MONTICELLO•	163492	P427
#MAIN	STEAM LINE DRAIN VALVE FAILS IN BID POSITION AT HATCH 1•	154667	P301
#SET POINT DRIFT IN HPCI	STEAM LINE FLOW SWITCH AT HATCH 2•	158771	P386
OYSTER CREEK•	#MAIN	STEAM LINE HIGH FLOW SENSORS FAIL TO TRIP ON SETPOINT AT	163385	P479
#SET POINT DRIFT IN MAIN	STEAM LINE HIGH FLOW SWITCH AT MILLSTONE 1•	155195	P420
DRESDEN 3•	#MAIN	STEAM LINE HIGH FLOW SWITCH FAILS TO TRIP ON SETPOINT AT	158821	P233
#SET POINT DRIFT IN RCIC TURBINE	STEAM LINE HIGH FLOW SWITCHES AT PEACH BOTTOM 2•	161779	P484
#SET POINT DRIFT IN MAIN	STEAM LINE HIGH RADIATION MONITOR AT BRUNSWICK 1•	154882	P130
BRUNSWICK 1•	#MAIN	STEAM LINE HIGH RADIATION MONITOR OUT OF CALIBRATION AT	154510	P125
DUANE ARNOLD•	#MAIN	STEAM LINE LEAK DETECTION TEMPERATURE SWITCH SET HIGH AT	160325	P 12
#SET POINT DRIFT IN RCIC	STEAM LINE LOW PRESSURE SWITCH AT FITZPATRICK•	163404	P296
#SET POINT DRIFT IN MAIN	STEAM LINE LOW PRESSURE SWITCH AT MONTICELLO•	155191	P428
#SET POINT DRIFT IN MAIN	STEAM LINE LOW PRESSURE SWITCH AT PEACH BOTTOM 2•	162487	P486
#SET POINT DRIFT IN MAIN	STEAM LINE LOW PRESSURE SWITCH AT QUAD CITIES 2•	159362	P307
DRESDEN 2•	#MAIN	STEAM LINE LOW PRESSURE TEST NOT COMPLETED ON TIME AT	154618	P408
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#LOW PRESSURE SENSED BY MAIN	STEAM LINE PRESSURE SENSOR AT BROWNS FERRY 2•	156337	P 85
#SET POINT DRIFT IN MAIN	STEAM LINE PRESSURE SWITCH AT DRESDEN 2•	163515	P223
#SET POINT MAIN	STEAM LINE PRESSURE SWITCH AT HATCH 2•	161473	P401
#SET POINT DRIFT IN	STEAM LINE PRESSURE SWITCH AT PEACH BOTTOM 2•	161961	P485
#SET POINT DRIFT IN MAIN	STEAM LINE RADIATION MONITOR AT BRUNSWICK 2•	154559	P162
#RPS HALF SCRAM CAUSED BY	STEAM LINE RADIATION MONITOR AT DRESDEN 2•	157163	P211
TIME AT VERMONT YANKEE•	#MAIN	STEAM LINE RADIATION MONITOR CALIBRATION NOT PERFORMED ON	156682	P571
#MAIN	STEAM LINE RADIATION MONITOR FAILS AT PEACH BOTTOM 3•	154729	P489
FERRY 2•	#	STEAM LINE RADIATION MONITOR FAILS DOWNSCALE AT BROWNS	155488	P 83
#MAIN	STEAM LINE RADIATION MONITOR READS LOW AT QUAD CITIES 1•	156004	P541
#MAIN	STEAM LINE RADIATION MONITOR TRIPPED AT DRESDEN 2•	160264	P213
#SET POINT DRIFT IN HPCI	STEAM LINE SPACE TEMPERATURE SWITCH AT BROWNS FERRY 1•	161796	P 77
FERRY 1•	#INCORRECT HPCI	STEAM LINE SPARE TEMPERATURE SWITCH INSTALLED AT BROWNS	157030	P 58
#TWO MAIN	STEAM LINE SUPPORT WELDS FAIL AT MILLSTONE 1•	161470	P424
BOTTOM 2•	#MAIN	STEAM LINE TEMPERATURE MONITORS INDICATE LOW AT PEACH	153477	P474
#SET POINT DRIFT IN MAIN	STEAM LINE TEMPERATURE SWITCHES AT HATCH 2•	157128	P361
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#HPCI AND RCIC	STEAM PRESSURE SWITCH SETPOINTS INCORRECT AT FITZPATRICK•	159576	P288
#BRACING BETWEEN MAIN	STEAM RELIEF VALVE VENT LINE LEGS MISSING AT HATCH 1•	153534	P299
#SET POINT DRIFT IN MAIN	STEAM RELIEF VALVES AT VERMONT YANKEE•	160930	P578
FERRY 2•	#MAIN	STEAM RELIEF VALVES FAIL TO ACTUATE PROPERLY AT BROWNS	160153	P 94
BOTTOM 3•	#MAIN	STEAM SAMPLE LINE ISOLATION VALVE FAILS TO CLOSE AT PEACH	154597	P488
•	#HPCI	STEAM SUPPLY ISOLATION VALVE FAILS AT MONTICELLO•	159422	P436
#RCIC	STEAM SUPPLY LINE ISOLATION VALVE FAILS TO CLOSE AT HATCH 2	158643	P370
#RCIC	STEAM SUPPLY LINE VALVE FAILS TO OPEN AT DUANE ARNOLD•	160501	P 21
#	STEAM SUPPLY PIPING NOZZLE WELD CRACKS AT MILLSTONE 1•	161471	P425
#SPURIOUS SIGNAL CLOSES HPCI	STEAM SUPPLY VALVE AT FITZPATRICK•	154655	P281
#RCIC	STEAM SUPPLY VALVE FAILS TO CLOSE AT PEACH BOTTOM 2•	160122	P480
#HPCI	STEAM SUPPLY VALVE FAILS TO OPEN AT DRESDEN 2•	160566	P220
#HPCI	STEAM SUPPLY VALVE FAILS TO OPEN AT DRESDEN 3•	160903	P238
#RCIC	STEAM SUPPLY VALVE LIMIT SWITCH FAILS AT DUANE ARNOLD•	160856	P 19
#HPCI	STEAM SUPPLY VALVE MOTOR FAILS AT FITZPATRICK•	162035	P295
#HPCI	STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT HATCH 1•	153503	P161
#HPCI	STEAM SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT HATCH 1•	153503	P299
CITIES 1•	#RCIC	STEAM SUPPLY VALVES LEFT CLOSED FOLLOWING TEST AT QUAD-	156025	P540

#PRESSURE SWITCH IN MAIN	STEAM SYSTEM TRIPS AT DRESDEN 3•	157058 P231
#HPCI	STEAM THROTTLE VALVE OSCILLATES AT PILGRIM 1•	160344 P524
#HPCI	STEAM THROTTLE VALVE OSCILLATES AT PILGRIM 1•	160240 P524
#SET POINT DRIFT IN HPCI	STEAMLINE HIGH D/P SWITCH AT BRUNSWICK 2•	156197 P173
#HPCI	STEAMLINE LEAKS AT QUAD-CITIES 2•	159241 P557
#SET POINT DRIFT IN HPCI	STEAMLINE LOW PRESSURE SWITCH AT HATCH 1•	161614 P342
#SET POINT DRIFT IN HIGH	STEAMLINE RADIATION CHANNEL AT BRUNSWICK 1•	157057 P134
#SET POINT DRIFT IN HIGH	STEAMLINE RADIATION CHANNEL AT BRUNSWICK 1•	160317 P142
#CRACKED WELD IN STRUCTURAL	STEEL BEAM AT BRUNSWICK 2•	161843 P195
#HPCI STOP VALVE	STEM FAILS AT COOPER•	155624 P242
#CONTAINMENT ATMOSPHERE MONITOR HAS A	STEP CHANGE AT BRUNSWICK 1•	154876 P130
BRUNSWICK 1•	# STEP CHANGE IN CONTAINMENT ATMOSPHERIC MONITOR READING AT	156186 P138
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#CONTAINMENT ATMOSPHERIC MONITOR HAS A	STEP INCREASE AT BRUNSWICK 1•	154876 P127
#SOURCE RANGE MONITOR RECORDER PIN	STICKS AT FITZPATRICK•	158625 P279
#REACTOR LOW WATER LEVEL SWITCH	STICKS CLOSED AT BRUNSWICK 2•	158732 P180
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#HPCI	STOP VALVE COVER LEAKS AT QUAD-CITIES 2•	161902 P562
#HPCI	STOP VALVE FAILS TO OPEN COMPLETELY AT BROWNS FERRY 1•	156211 P 56
#HPCI	STOP VALVE FAILS TO STAY OPEN AT BROWNS FERRY 1•	153490 P 46
#HPCI	STOP VALVE STEM FAILS AT COOPER•	155624 P242
#WASTE OIL	STORAGE AREA SOIL CONTAMINATED AT HATCH 1 AND 2•	162080 P345
#CONDENSATE	STORAGE TANK BASE SLAB SEAL MISSING AT HATCH 1•	157091 P312
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#FIRE WATER	STORAGE TANK LEVEL DROPS BELOW LIMIT AT HATCH 1•	157088 P313
#CAD	STORAGE TANK LEVEL DROPS BELOW LIMIT DURING INERTING AT	156110 P178
#SET POINT DRIFT IN CONDENSATE	STORAGE TANK LEVEL SWITCH AT BRUNSWICK 1•	155965 P127
#SETPOINT DRIFT IN CONDENSATE	STORAGE TANK LEVEL SWITCH AT FITZPATRICK•	156197 P274
#NITROGEN	STORAGE TANK LEVEL TOO LOW AT HATCH 1•	159503 P324
#CONDENSATE	STORAGE TANK LOW LEVEL SWITCH FAILS AT DUANE ARNOLD•	160829 P 19
#EXCESSIVE EROSION NOTED IN SW PUMPS	STRAINER BACKWASH LINE AT COOPER•	153972 P240
#CONTROL ROD DRIVE HYDRAULIC PIPE SUPPORTS FAIL TO MEET	STRESS LIMITS AT MONTICELLO•	156339 P433
#PIPE SUPPORT	STRESSES EXCEED LIMITS AT PEACH BOTTOM 3•	160372 P495
COOLANT LEAK DETECTION PARTICULATE CHAMBER COVER NUTS	STRIPPED AT PILGRIM 1• #REACTOR	159463 P522
#CRACKED WELD IN	STRUCTURAL STEEL BEAM AT BRUNSWICK 2•	161843 P195
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#HPCI	STUCK ON HIGH SPEED AT QUAD CITIES 2•	159524 P558
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#MANUAL VALVE ON HPCI SUPPRESSION POOL	SUCTION LINE FOUND CLOSED AT BRUNSWICK 1•	155515 P132
#HPCI	SUCTION LINE ISOLATION VALVE LEAKS AT DRESDEN 3•	157051 P230
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#MTGB CONTROL SWITCH FOR HPCI TORUS	SUCTION VALVE FAILS AT BRUNSWICK 1•	155397 P132
#SHUTDOWN COOLING	SUCTION VALVE FAILS TO OPEN AT HATCH 1•	158754 P321
#HPCI SUPPRESSION CHAMBER	SUCTION VALVE FAILS TO OPEN AT HATCH 2•	159317 P390
#RHR PUMP	SUCTION VALVE LEAKS AT HATCH 2•	161628 P403
#CORE SPRAY PUMP	SUCTION VENT LINE LEAKS AT OYSTER CREEK•	160863 P466
#RHR SERVICE WATER PUMP FLOW DROPS	SUDDENLY AT HATCH 2•	155433 P357
#RHR SERVICE WATER PUMPS FAIL TO PROVIDE	SUFFICIENT FLOW AT FITZPATRICK•	160227 P286
#DRYWELL DRAIN	SUMP FLOW INSTRUMENT INOPERABLE AT COOPER•	159505 P252
#DRYWELL	SUMP FLOW TRANSMITTER FAILS OFF AT BROWNS FERRY 3•	159492 P109
• #DRYWELL	SUMP INTEGRATOR AND FLOW RECORDER INOPERABLE AT FITZPATRICK	160882 P292
#DRYWELL	SUMP ISOLATION VALVE FAILS TO CLOSE AT MONTICELLO•	161895 P438
#CONTAINMENT	SUMP ISOLATION VALVE FAILS TO CLOSE AT VERMONT YANKEE•	158722 P573
#DRYWELL	SUMP PUMP FAILS AT FITZPATRICK•	160880 P292
#DRYWELL FLOOR	SUMP PUMP FLOW INTEGRATOR INOPERABLE AT PILGRIM 1•	160528 P530
#DRYWELL DRAIN	SUMP PUMP FLOW SENSORS OUT OF TOLERANCE AT FITZPATRICK•	159575 P288
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#RCIC STEAM	SUPPLY LINE ISOLATION VALVE FAILS TO CLOSE AT HATCH 2•	158643 P370
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#SPURIOUS SIGNAL CLOSES HPCI STEAM	SUPPLY VALVE AT FITZPATRICK•	154655 P261
#RCIC STEAM	SUPPLY VALVE FAILS TO CLOSE AT PEACH BOTTOM 2•	160122 P480
#HPCI STEAM	SUPPLY VALVE FAILS TO OPEN AT DRESDEN 2•	160566 P220
#HPCI STEAM	SUPPLY VALVE FAILS TO OPEN AT DRESDEN 3•	160903 P238
#RCIC STEAM	SUPPLY VALVE LIMIT SWITCH FAILS AT DUANE ARNOLD•	160856 P 19
#HPCI STEAM	SUPPLY VALVE MOTOR FAILS AT FITZPATRICK•	162035 P295
PEACH BOTTOM 2• #AIR	SUPPLY VALVE TO ISOLATION VALVE INADVERTENTLY CLOSED AT	161974 P486
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#HPCI STEAM	SUPPLY VALVES CLOSE ABOVE PRESSURE LIMIT AT HATCH 1•	153503 P209
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#TUBING GOING INTO CONTAINMENT LACKS PROPER	SUPPORT AT HATCH 1•	158768 P319
#RHR LOOP	SUPPORT INOPERABLE AT FITZPATRICK•	153728 P267
#INSTRUMENT AIR PIPE	SUPPORT MISSING AT HATCH 1•	159665 P332
#PSW SYSTEM SEISMIC PIPING	SUPPORT NOT INSTALLED AT HATCH 1•	160124 P337
#INOPERABLE PIPING	SUPPORT NOT REPAIRED PRIOR TO STARTUP AT BRUNSWICK 2•	153733 P169
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#CRACK FOUND IN HPCI TURBINE COUPLING BEARING	SUPPORT PEDESTAL AT BROWNS FERRY 1#	155292 P 80
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#RCIC PIPE	SUPPORT REQUIRES MODIFICATION AT HATCH 1#	159090 P332
#PIPE	SUPPORT STRESSES EXCEED LIMITS AT PEACH BOTTOM 3#	160372 P495
#TWO MAIN STEAM LINE	SUPPORT WELDS FAIL AT MILLSTONE 1#	161470 P484
#RHR MINIMUM FLOW LINES NOT ADEQUATELY	SUPPORTED AT HATCH 2#	155385 P353
#SERVICE WATER LINE INADEQUATELY	SUPPORTED AT HATCH 2#	160911 P398
#TEN PIPES NOT	SUPPORTED PROPERLY AT QUAD-CITIES 1#	160904 P548
#CONTROL ROD DRIVE SCRAM DISCHARGE PIPE	SUPPORTS ARE NOT ADEQUATE AT DRESDEN 2#	158492 P214
#CORE SPRAY PIPE	SUPPORTS DAMAGED AT MILLSTONE 1#	156005 P421
#SERVICE WATER PIPING	SUPPORTS DEGRADED AT BROWNS FERRY 1#	160518 P 78
#IMPROPERLY INSTALLED PIPE	SUPPORTS DISCOVERED AT OYSTER CREEK#	155474 P453
#CONTROL ROD DRIVE HYDRAULIC PIPE	SUPPORTS FAIL TO MEET STRESS LIMITS AT #DAYICELLO#	156339 P433
#INADEQUATE PIPE	SUPPORTS FOUND ON RHR SYSTEM AT HATCH 1#	159014 P328
#CRD PIPING	SUPPORTS INADEQUATE AT BRUNSWICK 1#	160110 P149
#CRD PIPING	SUPPORTS INADEQUATE AT BRUNSWICK 2#	160112 P183
#INADEQUATE FIRE PROTECTION PIPE	SUPPORTS INSTALLED AT HATCH 1#	162742 P344
#TWO SEISMIC	SUPPORTS MAY BE INADEQUATE AT VERMONT YANKEE#	155471 P570
#SCRAM DISCHARGE VOLUME DRAIN LINE PIPE	SUPPORTS REQUIRE MODIFICATION AT BRUNSWICK 1#	159195 P143
#CONTROL ROD DRIVE SCRAM DISCHARGE PIPE	SUPPORTS REQUIRE MODIFICATION AT DRESDEN 2#	158706 P234
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ARNOLD# #HPCI	SUPPRESSION CHAMBER SUCTION VALVE FAILS TO OPEN AT HATCH 2#	159317 P398
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#	SUPPRESSION POOL COOLER PUMP LOSES POWER AT HUMBOLDT BAY#	160293 P410
#	SUPPRESSION POOL COOLING INBOARD THROTTLE VALVE FAILS AT	159267 P253
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CITIES 2# #	SUPPRESSION POOL EXHAUST VALVE FAILS TO CLOSE AT BRUNSWICK	160487 P188
2# #	SUPPRESSION POOL LEVEL EXCEEDS LIMIT AT BRUNSWICK 2#	160514 P198
#	SUPPRESSION POOL LEVEL INDICATOR READS HIGH OFFSCALE AT	155534 P168
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CITIES 1# #MANUAL VALVE ON HPCI	SUPPRESSION POOL SUCTION LINE FOUND CLOSED AT BRUNSWICK 1#	155515 P132
#SHOCK	SUPPRESSOR FAILS TO LOCK UP AT VERMONT YANKEE#	160897 P577
#SHOCK	SUPPRESSOR INOPERABLE AT COOPER#	162520 P289
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#SMOKE DETECTOR	SURVEILLANCE NOT PERFORMED AT HATCH 1#	159232 P329
#HEAT DETECTOR	SURVEILLANCE NOT PERFORMED ON TIPE AT DRESDEN 2#	160023 P219
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#HPCI TURBINE SPEED	SWINGS AT HATCH 1#	158790 P310
#CONTROL ROD POSITION	SWITCH AND ROD BLOCK INOPERABLE AT VERMONT YANKEE#	160895 P576
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#SET POINT DRIFT IN CORE SPRAY	SWITCH AT BROWNS FERRY 1#	163338 P 78
#SET POINT DRIFT IN MAINSTEAM LINE HIGH FLOW	SWITCH AT BROWNS FERRY 2#	153489 P 79
#SET POINT DRIFT IN REACTOR WATER LEVEL	SWITCH AT BROWNS FERRY 2#	155205 P 81
#SET POINT DRIFT IN REACTOR PRESSURE	SWITCH AT BROWNS FERRY 2#	156948 P 87
#INCORRECT SET POINT IN REACTOR LEVEL	SWITCH AT BROWNS FERRY 2#	161886 P 95
#SET POINT DRIFT IN REACTOR LOW PRESSURE	SWITCH AT BROWNS FERRY 3#	157716 P109
#SET POINT DRIFT IN RCIC REACTOR WATER LEVEL TRIP	SWITCH AT BROWNS FERRY 3#	159286 P113
#SET POINT DRIFT IN DRYWELL HIGH PRESSURE	SWITCH AT BROWNS FERRY 3#	161598 P118
#SET POINT DRIFT IN PRESSURE	SWITCH AT BROWNS FERRY 3#	161620 P119
#SET POINT DRIFT IN RECIRCULATION VALVE	SWITCH AT BROWNS FERRY 3#	161934 P122
#SET POINT DRIFT IN REACTOR VESSEL SHROUD LEVEL	SWITCH AT BRUNSWICK 1#	154554 P124
#SET POINT DRIFT IN CONDENSATE STORAGE TANK LEVEL	SWITCH AT BRUNSWICK 1#	155565 P127
#SET POINT DRIFT IN REACTOR LOW WATER LEVEL	SWITCH AT BRUNSWICK 1#	160301 P139
#SET POINT DRIFT IN REACTOR LOW WATER LEVEL	SWITCH AT BRUNSWICK 1#	156932 P143
#SET POINT DRIFT IN HPCI STEAMLINE HIGH D/P	SWITCH AT BRUNSWICK 2#	156107 P173
#SET POINT DRIFT IN RCIC EXHAUST PRESSURE	SWITCH AT BRUNSWICK 2#	155317 P173
#SET POINT DRIFT IN REACTOR LOW WATER LEVEL	SWITCH AT BRUNSWICK 2#	156938 P178
#SET POINT DRIFT IN REACTOR LOW PRESSURE	SWITCH AT BRUNSWICK 2#	159804 P178
#SET POINT DRIFT IN REACTOR LOW PRESSURE	SWITCH AT BRUNSWICK 2#	161985 P193
#SET POINT DRIFT IN REACTOR LOW WATER LEVEL	SWITCH AT BRUNSWICK 2#	161652 P197
#SET POINT DRIFT IN REACTOR WATER LEVEL	SWITCH AT DRESDEN 2#	158197 P208
#SET POINT DRIFT IN ISOLATION CONDENSER FLOW	SWITCH AT DRESDEN 2#	160002 P211
#SET POINT DRIFT IN ISOLATION CONDENSER CONDENSATE FLOW	SWITCH AT DRESDEN 2#	159263 P215
#SET POINT DRIFT IN CONDENSER PRESSURE	SWITCH AT DRESDEN 2#	161871 P221
#SET POINT DRIFT IN LPCI DRYWELL HIGH PRESSURE	SWITCH AT DRESDEN 2#	163379 P222
#SET POINT DRIFT IN MAIN STEAM LINE PRESSURE	SWITCH AT DRESDEN 2#	163815 P223
#SET POINT DRIFT IN STEAM LINE DVER TEMPERATURE	SWITCH AT DRESDEN 3#	155445 P229
#SET POINT DRIFT IN RPS LEVEL	SWITCH AT DRESDEN 3#	161460 P237
#SET POINT DRIFT IN RHR LOW PRESSURE PERMISSIVE	SWITCH AT DUANE ARNOLD#	155810 P 4
#SET POINT DRIFT IN CORE SPRAY DIFFERENTIAL PRESSURE	SWITCH AT DUANE ARNOLD#	155514 P 5
#SET POINT DRIFT IN CORE SPRAY PRESSURE	SWITCH AT DUANE ARNOLD#	160353 P 17
#SET POINT DRIFT IN CONTAINMENT SPRAY PRESSURE	SWITCH AT DUANE ARNOLD#	160460 P 18
#SET POINT DRIFT IN DRYWELL HIGH PRESSURE	SWITCH AT DUANE ARNOLD#	161998 P 23
#SET POINT DRIFT IN RCIC HIGH STEAM FLOW	SWITCH AT FITZPATRICK#	154653 P261

#SET POINT DRIFT IN CORE SPRAY PERMISSIVE	SWITCH AT FITZPATRICK*	154664 P265
#SETPOINT DRIFT IN CONDENSATE STORAGE TANK LEVEL	SWITCH AT FITZPATRICK*	156197 P274
#SET POINT DRIFT IN HIGH DRYWELL PRESSURE	SWITCH AT FITZPATRICK*	160435 P291
#SET POINT DRIFT IN RCIC STEAM LINE LOW PRESSURE	SWITCH AT FITZPATRICK*	163424 P296
#SET POINT DRIFT IN HPCI DIFFERENTIAL PRESSURE	SWITCH AT HATCH 1*	154492 P161
#SET POINT DRIFT IN HPCI DIFFERENTIAL PRESSURE	SWITCH AT HATCH 1*	154492 P290
#SET POINT DRIFT IN RCIC FLOW	SWITCH AT HATCH 1*	156096 P305
#INCORRECT SET POINT FOUND IN REACTOR LEVEL	SWITCH AT HATCH 1*	161951 P341
#SET POINT DRIFT IN HPCI STEAMLINE LOW PRESSURE	SWITCH AT HATCH 1*	161814 P342
#SET POINT DRIFT IN TURBINE CONTROL VALVE PRESSURE	SWITCH AT HATCH 2*	156118 P359
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#SET POINT DRIFT IN HPCI STEAM LINE FLOW	SWITCH AT HATCH 2*	158771 P386
#SET POINT DRIFT IN REACTOR PRESSURE	SWITCH AT HATCH 2*	160450 P397
#SET POINT DRIFTS IN CORE SPRAY PUMP PRESSURE	SWITCH AT HATCH 2*	160455 P397
#SET POINT DRIFT IN HPCI TURBINE PRESSURE	SWITCH AT HATCH 2*	160519 P396
#SET POINT DRIFT IN HPCI STEAM LINE DP	SWITCH AT HATCH 2*	161872 P430
#SET POINT MAIN STEAM LINE PRESSURE	SWITCH AT HATCH 2*	161473 P401
#SET POINT DRIFT IN MAIN STEAM LINE HIGH FLOW	SWITCH AT MILLSTONE 1*	155195 P420
#SET POINT DRIFT IN CONTAINMENT HIGH PRESSURE	SWITCH AT MILLSTONE 1*	160459 P423
#SET POINT DRIFT IN LOW WATER LEVEL SCRAM	SWITCH AT MILLSTONE 1*	160923 P424
#SET POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE	SWITCH AT MONTICELLO*	155191 P428
#SET POINT DRIFT IN TURBINE ANTICIPATORY TRIP	SWITCH AT NINE MILE POINT 1*	159235 P442
#SET POINT DRIFT IN CORE SPRAY PRESSURE	SWITCH AT PEACH BOTTOM 2*	160550 P483
#SET POINT DRIFT IN STEAM LINE PRESSURE	SWITCH AT PEACH BOTTOM 2*	161961 P485
#SET POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE	SWITCH AT PEACH BOTTOM 2*	162487 P486
#SET POINT DRIFT IN DEMINERALIZER TEMPERATURE	SWITCH AT PEACH BOTTOM 2*	162047 P487
#SET POINT DRIFT IN CORE SPRAY PUMP DISCHARGE PRESSURE	SWITCH AT PEACH BOTTOM 3*	154017 P488
#SET POINT DRIFT IN RCIC TURBINE STEAM FLOW	SWITCH AT PEACH BOTTOM 3*	155347 P491
#SET POINT DRIFT IN SHUTDOWN COOLING PRESSURE	SWITCH AT PEACH BOTTOM 3*	159410 P493
#SET POINT DRIFT IN DRYWELL PRESSURE	SWITCH AT PEACH BOTTOM 3*	157744 P494
#SET POINT DRIFT IN REACTOR WATER CLEANUP TEMPERATURE	SWITCH AT PEACH BOTTOM 3*	160431 P498
#SET POINT DRIFT IN CONDENSER LOW VACUUM	SWITCH AT PILGRIM 1*	156138 P307
#SET POINT DRIFT IN REACTOR LOW WATER LEVEL	SWITCH AT QUAD CITIES 1*	156912 P343
#SET POINT DRIFT IN HPCI TURBINE AREA HIGH TEMPERATURE	SWITCH AT QUAD CITIES 1*	160451 P347
#SET POINT DRIFT IN MAIN STEAM LINE LOW PRESSURE	SWITCH AT QUAD CITIES 2*	159342 P357
#SETPOINT DRIFT IN TORUS VACUUM BREAKER PRESSURE	SWITCH AT QUAD CITIES 2*	159344 P357
#SET POINT DRIFT IN ELECTROHYDRAULIC CONTROL FLUID PRESSURE	SWITCH AT QUAD-CITIES 1*	156962 P342
#SET POINT DRIFT IN CONTAINMENT PRESSURE	SWITCH AT QUAD-CITIES 2*	161458 P361
#SET POINT DRIFT IN RCIC DIFFERENTIAL PRESSURE	SWITCH AT VERMONT YANKEE*	153460 P365
#SET POINT DRIFT IN REACTOR LOW PRESSURE	SWITCH AT VERMONT YANKEE*	154714 P366
#RPS INPUT	SWITCH CALIBRATED INCORRECTLY AT PEACH BOTTOM 3*	160294 P493
#CORE SPRAY PUMP DISCHARGE	SWITCH EXCEEDS SETPOINT AT BROWNS FERRY 1*	158269 P 63
#PRESSURE INDICATOR	SWITCH FAILS AT BIG ROCK POINT*	160291 P 38
#CONTROL ROD DRIVE ACCUMULATOR LEVEL	SWITCH FAILS AT BROWNS FERRY 1*	155296 P 45
#SCRAM DISCHARGE VOLUME HIGH LEVEL	SWITCH FAILS AT BROWNS FERRY 1*	158263 P 65
#REACTOR WATER LEVEL	SWITCH FAILS AT BRUNSWICK 1*	158565 P144
#REACTOR WATER LEVEL INDICATION	SWITCH FAILS AT BRUNSWICK 2*	160045 P188
#CONDENSATE STORAGE TANK LOW LEVEL	SWITCH FAILS AT DUANE ARNOLD*	160829 P 19
#RCIC STEAM SUPPLY VALVE LIMIT	SWITCH FAILS AT DUANE ARNOLD*	160856 P 19
#HPCI LEAK DETECTION TEMPERATURE DIFFERENTIAL	SWITCH FAILS AT DUANE ARNOLD*	160851 P 21
#RCIC HIGH AMBIENT TEMPERATURE	SWITCH FAILS AT FITZPATRICK*	158836 P281
#CONTAINMENT PURGE VACUUM BREAKER PRESSURE	SWITCH FAILS AT HATCH 2*	158726 P369
#REACTOR WATER LEVEL	SWITCH FAILS AT HATCH 2*	158674 P342
#REACTOR WATER LEVEL	SWITCH FAILS AT HATCH 2*	158675 P342
#SCRAM DISCHARGE VOLUME HIGH LEVEL ROD WITHDRAWAL BLOCK	SWITCH FAILS AT HATCH 2*	159150 P390
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#REACTOR LOW-LOW WATER LEVEL	SWITCH FAILS TO OPERATE PROPERLY AT QUAD CITIES 1*	155369 P340
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#MAIN STEAM ISOLATION VALVE CLOSES	TOO FAST AT BROWNS FERRY 3#		160080 P116
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#CORE MAXIMUM FRACTION OF LIMITING POWER DENSITY IS	TOO HIGH AT HATCH 2#		159618 P383
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	#	TORUS TO DRYWELL VACUUM BREAKER FAILS AT DRESDEN 2*	158556 P211
INDICATION AT DRESDEN 2*	#	TORUS TO DRYWELL VACUUM BREAKER FAILS TC GIVE OPEN	160266 P214
	#LEAKAGE OF	TORUS TC RB VACUUM BREAKER EXCEEDS LIMIT AT PILGRIM 1*	154689 P503
	#	TORUS VACUUM BREAKER FAILS AT HATCH 2*	156933 P372
	#REACTOR BUILDING TO	TORUS VACUUM BREAKER INLET PIPE COVERED AT OYSTER CREEK*	158779 P459
	#SETPOINT DRIFT IN	TORUS VACUUM BREAKER PRESSURE SWITCH AT QUAD CITIES 2*	159344 P557
	#	TORUS VACUUM BREAKER VALVE FAILED OPEN AT HATCH 2*	159629 P385
	#DRYWELL-	TORUS VACUUM BREAKERS NOT TESTED ON TIME AT HATCH 2*	160845 P400
	#LEAK RATE OF	TORUS VENT VALVE EXCEEDS LIMIT AT MONTICELLO*	156241 P430
	#	TORUS VENT VALVES FAIL TO OPEN AT DRESDEN 2*	158704 P215
1*	#SOME	TORUS WATER DRAINED THROUGH CORE SPRAY SYSTEM AT BRUNSWICK	155314 P133
	#	TORUS WATER LEVEL BELOW LIMIT AT HATCH 2*	160802 P403
	#	TORUS WATER LEVEL DROPS BELOW LIMIT AT FITZPATRICK*	154666 P265
	#	TORUS WATER LEVEL EXCEEDS LIMIT AT FITZPATRICK*	155556 P269
	#	TORUS WATER LEVEL FALLS BELOW LIMIT AT DUANE ARNOLD*	159215 P 13
	#	TORUS WATER LEVEL FALLS BELOW LIMIT AT FITZPATRICK*	158604 P282
	#	TORUS WATER LEVEL INDICATOR FAILS AT PILGRIM 1*	161937 P535
	#	TORUS WATER LEVEL INSTRUMENT READS DOWNSCALE AT HATCH 2*	158297 P367
	#	TORUS WATER LEVEL PUMPED DOWN BELOW LIMIT AT DUANE ARNOLD*	163370 P 25
	#	TORUS WATER LEVEL RECORDER INOPERABLE AT HATCH 1*	159291 P334
FITZPATRICK*	#	TORUS WATER LEVEL SENSOR FAILS TC INDICATE ACTUAL LEVEL AT	159104 P286
	#	TORUS WATER LEVEL SWITCH FAILS TC ACTUATE AT BRUNSWICK 2*	155372 P167
*	#NARROW RANGE	TORUS WATER LEVEL TRANSMITTER OUT OF CALIBRATION AT HATCH 2	154648 P348
	#	TORUS-DRYWELL VACUUM BREAKER FAILS TC OPEN AT HATCH 2*	156143 P355
*	#	TORUS/DRYWELL VACUUM BREAKER FAILS TC OPEN AT HATCH 2*	160476 P396
*	#	TOTAL CONTAINMENT LEAK RATE EXCEEDS LIMIT AT BROWNS FERRY 1	155532 P 55
*	#MAXIMUM	TOTAL PEAKING FACTOR CALCULATION INCORRECTLY AT BRUNSWICK 1	159210 P148
PERRY 1*	#COOLING	TOWER TRANSFORMER FEEDER BREAKERS FAIL TO CLOSE AT BROWNS	161794 P 77
#PLCW LOST IN STANDBY GAS TREATMENT SYSTEM		TRAIN AT HATCH 2*	156990 P363
#STANDBY GAS TREATMENT		TRAIN FAILS TO RESET AT BRUNSWICK 1*	156176 P136
#STANDBY GAS TREATMENT FILTER		TRAIN FAILS TO START AT HATCH 2*	156935 P372
#A FIRE IN SOME ELECTRICAL RACEWAYS COULD EFFECT REDUNDANT		TRAINS AT PILGRIM 1*	154694 P502
#BOTH SERVICE WATER		TRAINS INOPERABLE AT HATCH 1*	158438 P338
#MOV BOARD BREAKER FAILS TO TRANSFER DURING MANUAL		TRANSFER AT BROWNS FERRY 2*	156028 P 83
#CONTAINMENT ISOLATION VALVES LOSE POWER AND		TRANSFER CLOSED AT BROWNS FERRY 3*	157005 P106
#MOV BOARD BREAKER FAILS TO		TRANSFER DURING MANUAL TRANSFER AT BROWNS FERRY 2*	156028 P 83
#RADIOACTIVE WATER LEAKS FROM CONDENSATE		TRANSFER PIPING AT OYSTER CREEK*	155566 P451
#THREE UNAUTHORIZED		TRANSFERS OF SPECIAL NUCLEAR MATERIAL AT HATCH 1*	161949 P343
#RCIC VALVE		TRANSFERS OPEN WHEN BREAKER CONTACT SHORTS AT COOPER*	157036 P244
* #COOLING TOWER		TRANSFORMER FEEDER BREAKERS FAIL TC CLOSE AT BROWNS FERRY 1	161794 P 77
#24KV SHUTDOWN		TRANSFORMER TRIPS AT PILGRIM 1*	155438 P502
#SET POINT DRIFT IN REACTOR LEVEL		TRANSMITTER AT BIG ROCK POINT*	157074 P 34
#SET POINT DRIFT IN REACTOR LEVEL		TRANSMITTER AT BIG ROCK POINT*	157076 P 35
#SET POINT DRIFT IN REACTOR WATER LEVEL		TRANSMITTER AT BIG ROCK POINT*	156777 P 37
#SET POINT DRIFT IN REACTOR LEVEL		TRANSMITTER AT BIG ROCK POINT*	160170 P 41
#DRYWELL SUMP FLOW		TRANSMITTER FALLS OFF AT BROWNS FERRY 3*	159402 P109
#FEEDWATER CONTROL LEVEL		TRANSMITTER FOUND OUT OF CALIBRATION AT FITZPATRICK*	156915 P277
#DRYWELL PRESSURE		TRANSMITTER NOT QUALIFIED AT BROWNS FERRY 2*	161640 P 98
#DRYWELL PRESSURE		TRANSMITTER NOT QUALIFIED AT BROWNS FERRY 3*	161599 P115
#NARROW RANGE TORUS WATER LEVEL		TRANSMITTER OUT OF CALIBRATION AT HATCH 2*	154948 P348
#TORUS LEVEL		TRANSMITTER OUT OF TOLERANCE AT BRUNSWICK 1*	155559 P129
#DIFFERENTIAL PRESSURE		TRANSMITTER VALVE FOUND CLOSED AT QUAD CITIES 1*	154443 P536
#DRYWELL PRESSURE		TRANSMITTERS NOT QUALIFIED AT BROWNS FERRY 1*	161893 P 76
#LEAK FOUND IN RECOMBINER DRAIN		TRAP CONDENSATE LINE AT MONTICELLO*	163468 P427
OYSTER CREEK* #CONTROL ROD FREE		TRAVEL INTERLOCK SURVEILLANCE NOT PERFORMED ON TIME AT	158270 P458
DUANE ARNOLD* #RIVER WATER		TRAVELING SCREEN FAILS WHILE REDUNDANT SYSTEM IS FAILED AT	159051 P 14
*	#	TRAVERSING INCORE PROBE FAILS TC WITHDRAW AT PEACH BOTTOM 3	155585 P489

BRUNSWICK 2*		#	TRAVERSING INCORE PROBE POSITION INDICATION FAILS AT	162706 P202
	#STANDBY GAS		TREATMENT CHARCOAL BED LEAKS AT QUAD CITIES 1*	164920 P339
	#STANDBY GAS		TREATMENT FAN FAILS TO MEET FLOW REQUIREMENTS AT HATCH 1*	153740 P300
	#STANDBY GAS		TREATMENT FAN TRIPS ON OVERLOAD AT OYSTER CREEK*	159328 P462
PEACH BOTTOM 2*	#STANDBY GAS		TREATMENT FILTER ASSEMBLY ISOLATION VALVE FAILS TO OPEN AT	161071 P483
	#STANDBY GAS		TREATMENT FILTER TRAIN FAILS TO START AT HATCH 2*	156936 P372
BRUNSWICK 2*	#STANDBY GAS		TREATMENT OPERABILITY TEST NOT PERFORMED ON TIME AT	158602 P178
	#STANDBY GAS		TREATMENT POWER CABLES UNDERSIZED AT HATCH 2*	156881 P369
	#STANDBY GAS		TREATMENT PROCEDURE CHANGES NOT REVIEWED AT HATCH 1*	160277 P321
	#SETPOINT DRIFT IN STANDBY GAS		TREATMENT RADIATION MONITORS AT OYSTER CREEK*	155557 P451
	#STANDBY GAS		TREATMENT SYSTEM FAILS AT FITZPATRICK*	159581 P287
*	#STANDBY GAS		TREATMENT SYSTEM FLOWRATE FALLS BELOW LIMIT AT OYSTER CREEK	155456 P452
	#CONTROL ROOM AIR		TREATMENT SYSTEM INOPERABLE AT DUANE ARNOLD*	159558 P 16
	#STANDBY GAS		TREATMENT SYSTEM INOPERABLE AT PILGRIM 1*	159522 P317
	#STANDBY GAS		TREATMENT SYSTEM OPERATED IN DEGRADED MODE AT OYSTER CREEK*	160354 P463
	#FLOW LOST IN STANDBY GAS		TREATMENT SYSTEM TRAIN AT HATCH 2*	156990 P363
	#STANDBY GAS		TREATMENT SYSTEM TRIPS AT DRESDEN 3*	161062 P236
	#STANDBY GAS		TREATMENT TRAIN FAILS TO RESET AT BRUNSWICK 1*	156176 P136
	#STANDBY GAS		TREATMENT UNIT FAILS AT OYSTER CREEK*	155994 P454
		#	TRIAXIAL ACCELOGRAPH SYSTEMS ALARM AT BRUNSWICK 2*	155394 P204
CLOSES AT HATCH 2*	#RCIC		TRIP AND THROTTLE VALVE CLOSES AND HPCI ISOLATION VALVE	156987 P370
	#RCIC TURBINE		TRIP AND THROTTLE VALVE FAILS TO OPEN AT DUANE ARNOLD*	159059 P 15
	#RCIC		TRIP AND THROTTLE VALVE FAILS TO TRIP AT BRUNSWICK 2*	154678 P166
	#HPCI FAILS TO MEET FLOW REQUIREMENT DUE TO		TRIP AT BROWNS FERRY 1*	158272 P 63
	#SWITCHGEAR BREAKERS		TRIP AT BROWNS FERRY 3*	161682 P117
	#REACTOR LOW WATER LEVEL SWITCH FAILS TO		TRIP AT BRUNSWICK 1*	154880 P131
	#RCIC TRIP AND THROTTLE VALVE FAILS TO		TRIP AT BRUNSWICK 2*	154678 P166
	#ELECTRONIC DRIFT CAUSES INCORRECT ROD BLOCK		TRIP AT DRESDEN 2*	157696 P232
	#DIESEL GENERATOR OUTPUT BREAKER FAILS TO		TRIP AT HATCH 2*	158296 P371
	#RPS		TRIP CHANNEL INOPERABLE AT BRUNSWICK 2*	159451 P183
	#HPCI REACTOR HIGH WATER LEVEL		TRIP INOPERABLE AT BROWNS FERRY 1*	156011 P 55
	#HPCI TURBINE FAILS TO		TRIP ON OVERSPEED AT HATCH 1*	159434 P332
	#MAIN STEAM LINE HIGH FLOW SWITCH FAILS TO		TRIP ON SETPOINT AT DRESDEN 3*	158821 P233
	#MAIN STEAM LINE HIGH FLOW SENSORS FAIL TO		TRIP ON SETPOINT AT OYSTER CREEK*	163385 P470
	#CONTAINMENT PRESSURE SWITCHES		TRIP OUT OF SPECS AT DUANE ARNOLD*	160268 P 11
	#RPS		TRIP SETTING NONCONSERVATIVE AT PILGRIM 1*	160894 P329
	#SET POINT DRIFT IN RCIC REACTOR WATER LEVEL		TRIP SWITCH AT BROWNS FERRY 3*	159284 P113
	#SET POINT DRIFT IN TURBINE ANTICIPATORY		TRIP SWITCH AT NINE MILE POINT 1*	159235 P402
	#RECIRCULATION PUMP		TRIP SYSTEM NOT TESTED AT DUANE ARNOLD*	160202 P 15
	#UNIT 1		TRIP TEST NOT PERFORMED WHEN REQUIRED AT HUMBOLDT BAY*	155480 P410
	#DG FAILS TO		TRIP TO IDLE SPEED FROM LOAD AT BROWNS FERRY 3*	160216 P116
	#REACTOR LEVEL SWITCHES		TRIP TOO LATE AT HATCH 2*	160518 P398
	#TWO SERVICE WATER PUMPS EACH		TRIP TWICE AT PILGRIM 1*	160327 P321
	#ONLY OPERABLE RECIRCULATION PUMP ACCIDENTALLY		TRIPPED AT BROWNS FERRY 2*	155904 P 82
	#REACTOR RECIRCULATION MG SET		TRIPPED AT BROWNS FERRY 2*	157736 P 88
	#MAIN STEAM LINE RADIATION MONITOR		TRIPPED AT DRESDEN 2*	160264 P213
BROWNS FERRY 3*	#RCIC		TRIPPED ON OVERSPEED DUE TO LOSS OF SPEED CONTROL AT	157436 P107
	#RCIC TURBINE		TRIPPED ON REACTOR STARTUP AT HATCH 1*	160250 P318
	#ATHENS 161 KV LINE		TRIPS AT BROWNS FERRY 1*	156013 P 55
	#HPCI TURBINE		TRIPS AT BROWNS FERRY 1*	157033 P 57
	#RECIRCULATION PUMP MOTOR GENERATOR		TRIPS AT BROWNS FERRY 1*	156862 P 60
	#RCIC TURBINE		TRIPS AT BROWNS FERRY 1*	156961 P 60
	#OFF SITE ELECTRIC POWER LINE		TRIPS AT BROWNS FERRY 1*	159267 P 68
	#RHR AREA COOLER FAN THERMAL OVERLOAD		TRIPS AT BROWNS FERRY 1*	159407 P 69
	#DIESEL GENERATOR BREAKE.		TRIPS AT BROWNS FERRY 1*	163337 P 79
	#RECIRCULATION PUMP		TRIPS AT BROWNS FERRY 2*	155592 P 82
	#REACTOR RECIRCULATION MOTOR-GENERATOR SET		TRIPS AT BROWNS FERRY 2*	156213 P 86
	#BREAKER TO REACTOR MOV BOARD		TRIPS AT BROWNS FERRY 2*	158767 P 89
	#RCIC TURBINE		TRIPS AT BROWNS FERRY 3*	159488 P110
	#RHR PUMP MOTOR		TRIPS AT BROWNS FERRY 3*	159650 P113
	#REACTOR RECIRCULATION PUMP		TRIPS AT BROWNS FERRY 3*	160126 P115
	#RECIRCULATION PUMP		TRIPS AT BRUNSWICK 1*	158607 P140
	#FIRE PROTECTION DELUGE VALVE		TRIPS AT BRUNSWICK 1*	162614 P160
	#STEAM LEAK DETECTION LOGIC TOPAZ INVERTER		TRIPS AT BRUNSWICK 2*	155323 P165
	#CONTAINMENT ATMOSPHERIC MONITOR BREAKER		TRIPS AT BRUNSWICK 2*	155570 P167
	#REACTOR RECIRCULATION PUMP MOTOR GENERATOR		TRIPS AT BRUNSWICK 2*	162709 P202
	#PRESSURE SWITCH IN MAIN STEAM SYSTEM		TRIPS AT DRESDEN 3*	157058 P231
	#STANDBY GAS TREATMENT SYSTEM		TRIPS AT DRESDEN 3*	161062 P236
	#LPCI INVERTER		TRIPS AT FITZPATRICK 1*	160506 P291
	#LPCI INVERTER		TRIPS AT FITZPATRICK*	154753 P269
	#LPCI INDEPENDENT POWER SUPPLY INVERTER		TRIPS AT FITZPATRICK*	163403 P278
	#DIESEL GENERATOR		TRIPS AT FITZPATRICK*	156676 P284
	#MULTIPLE LPCI INVERTER		TRIPS AT FITZPATRICK*	160116 P290
	#STANDBY DIESEL SERVICE WATER PUMP		TRIPS AT HATCH 1*	153505 P298
	#REACTOR RECIRCULATION PUMP		TRIPS AT HATCH 1*	154887 P305
	#CONTROL ROOM FILTER FAN		TRIPS AT HATCH 1*	157121 P313
	#REACTOR PROTECTION SYSTEM MOTOR GENERATOR OUTPUT BREAKER		TRIPS AT HATCH 1*	157973 P314
	#LPCI INVERTER		TRIPS AT HATCH 1*	159189 P330
	#OFFGAS HYDROGEN SAMPLE PUMP		TRIPS AT HATCH 1*	159442 P336
	#RECIRCULATION PUMP MOTOR GENERATOR		TRIPS AT HATCH 1*	161795 P342
	#HPCI AUTOMATIC FLOW CONTROL POWER INVERTER		TRIPS AT HATCH 2*	163795 P349
	#HPCI AUXILIARY OIL PUMP FEEDER BREAKER		TRIPS AT HATCH 2*	154737 P384
	#DILUTION PUMP		TRIPS AT OYSTER CREEK*	161676 P473
	#ONE OFF-SITE POWER SOURCE		TRIPS AT PEACH BOTTOM 2*	156027 P477
	#REACTOR COOLANT LEAK DETECTION AIR SAMPLING SYSTEM		TRIPS AT PILGRIM 1*	153970 P301
	#FIRE ALARM INADVERTENTLY		TRIPS AT PILGRIM 1*	155395 P301
	#24KV SHUTDOWN TRANSFORMER		TRIPS AT PILGRIM 1*	155400 P302

	#STACK GAS GRAB SAMPLE PUMP	TRIPS AT PILGRIM 1#	150546 P512
	#SALT SERVICE WATER PUMP	TRIPS AT PILGRIM 1#	159607 P516
	#REACTOR RECIRCULATION PUMP	TRIPS AT PILGRIM 1#	159445 P524
	#RHR SUPPRESSION CHAMBER DUMP VALVE BREAKER	TRIPS AT QUAD CITIES 1#	155522 P539
	#SAFETY RELATED MOTOR CONTROL CENTER FEEDER BREAKER	TRIPS AT QUAD CITIES 1#	158624 P542
	#RECIRCULATION PUMP MOTOR GENERATOR SET	TRIPS AT QUAD CITIES 1#	158629 P543
	#POWER SUPPLY	TRIPS AT VERMONT YANKEE#	160103 P575
	#REACTOR WATER LEVEL SWITCH	TRIPS BELOW SETPOINT AT DRESDEN 3#	158749 P232
	#REACTOR WATER LEVEL SWITCH	TRIPS BELOW SETPOINT AT DRESDEN 3#	158750 P233
	#HPCI	TRIPS DURING A TEST AT BRUNSWICK 1#	154511 P122
	#HPCI TURBINE	TRIPS DURING TESTING AT BROWNS FERRY 2#	156017 P 86
	#HPCI TURBINE	TRIPS DURING TESTING AT VERMONT YANKEE#	154875 P566
	#RESIDUAL HEAT REMOVAL SYSTEM CONTROL VALVE	TRIPS IN MID-POSITION AT BROWNS FERRY 3#	154707 P103
	#STANDBY LIQUID CONTROL PUMP BREAKER	TRIPS INADVERTENTLY AT BROWNS FERRY 3#	161936 P121
	#RHR PUMP	TRIPS OFF AT BRUNSWICK 1#	155587 P132
	#DIESEL GENERATOR	TRIPS ON HIGH ENGINE TEMPERATURE AT QUAD CITIES 1#	161063 P568
	#DIESEL GENERATOR	TRIPS ON LOW LUBE OIL PRESSURE AT FITZPATRICK#	154949 P268
	#RECIRCULATION PUMP	TRIPS ON LO# OIL PRESSURE AT HATCH 1#	159315 P394
	#RCIC	TRIPS ON MANUAL STARTUP AT HATCH 2#	159127 P381
	#RHR PUMP	TRIPS ON OVERCURRENT AT BROWNS FERRY 3#	161959 P120
	#STANDBY GAS TREATMENT FAN	TRIPS ON OVERLOAD AT OYSTER CREEK#	159328 P462
	#DG AUXILIARY OIL PUMP MOTOR	TRIPS OUT AT BROWNS FERRY 3#	159490 P110
	#ERRONEOUS MANUAL OPERATION OF A RELAY	TRIPS RECIRC PUMP AT BROWNS FERRY 2#	155365 P 82
	#FEEDER BUS FAULT	TRIPS RECIRCULATION PUMP AT BROWNS FERRY 1#	156960 P 58
	#RECIRCULATION PUMP	TRIPS TWICE AT BRUNSWICK 2#	155567 P170
	#REACTOR HIGH PRESSURE SCRAM SENSOR	TRIPS 9 PSIG TOO HIGH AT OYSTER CREEK#	157699 P456
	#RCIC	TRUBINE WHEEL DAMAGED AT COOPER#	157032 P265
	#LPCI HEAT EXCHANGER	TUBES LEAK AT DRESDEN 2#	160087 P218
	#LPCI HEAT EXCHANGER	TUBES LEAK AT DRESDEN 3#	158705 P233
	#CONTAINMENT SPRAY HEAT EXCHANGER	TUBES LEAK AT OYSTER CREEK#	155993 P453
HATCH 1#	#	TUBING GOING INTO CONTAINMENT LACKS PROPER SUPPORT AT	158748 P319
#	#CONTROL AIR	TUBING TO AUX SYSTEM COOLING VALVE BROKEN AT BIG ROCK POINT	154459 P 32
	#SET POINT DRIFT IN	TURBINE ANTICIPATORY TRIP SWITCH AT NINE MILE POINT 1#	159235 P442
	#SET POINT DRIFT IN HPCI	TURBINE AREA HIGH TEMPERATURE SWITCH AT QUAD CITIES 1#	160631 P547
	#RCIC SYSTEM INOPERABLE FOR	TURBINE BEARING INSPECTION AT FITZPATRICK#	154657 P260
	#RCIC	TURBINE BEARINGS FAIL AT DUANE ARNOLD#	158248 P 29
	#SOIL UNDER	TURBINE BUILDING CONTAMINATED AT LACROSSE#	162539 P416
	#	TURBINE BUILDING ROOF VENT MONITOR FAILS AT BROWNS FERRY 1#	159435 P 69
BROWNS FERRY 1#	#	TURBINE BUILDING VENTILATION SAMPLES NOT TAKEN ON TIME AT	159404 P 70
PILGRIM 1#	#	TURBINE COMPARTMENT TEMPERATURE SWITCH SETPOINT IS HIGH AT	159242 P511
#	#	TURBINE COMPUTER SYSTEM SPURIOUSLY SCRAMS REACTOR AT COOPER	159253 P253
	#RCIC	TURBINE CONTROL FAILS AT FITZPATRICK#	159382 P290
DRESDEN 2#	#	TURBINE CONTROL VALVE CLOSURE SCRAM FAILS TO RESET AT	154620 P207
AT BRUNSWICK 2#	#MAIN	TURBINE CONTROL VALVE CLOSURE SWITCH RESPONSE TIME IS SLOW	156930 P176
	#HPCI	TURBINE CONTROL VALVE FAILS TO OPEN AT BRUNSWICK 2#	160082 P188
BRUNSWICK 2#	#MAIN	TURBINE CONTROL VALVE FAST CLOSURE RELAY FAILS AT	161070 P183
HATCH 1#	#	TURBINE CONTROL VALVE FAST CLOSURE TEST NOT PERFORMED AT	154665 P301
	#SET POINT DRIFT IN	TURBINE CONTROL VALVE PRESSURE SWITCH AT HATCH 2#	156118 P359
#	#CRACK FOUND IN HPCI	TURBINE COUPLING BEARING SUPPORT PEDESTAL AT BROWNS FERRY 1	155292 P 50
#	#CRACK DISCOVERED IN HPCI	TURBINE COUPLING BEARING SUPPORT PEDESTAL AT BROWNS FERRY 2	155480 P 83
	#HPCI	TURBINE DOES NOT REACH RATED SPEED AT DUANE ARNOLD#	160278 P 10
	#LEAK RATE OF HPCI	TURBINE EXHAUST CHECK VALVE EXCEEDS LIMIT AT MONTICELLO#	156239 P429
	#LEAK RATE OF RCIC	TURBINE EXHAUST CHECK VALVE EXCEEDS LIMIT AT MONTICELLO#	156242 P431
HATCH 2#	#RCIC	TURBINE EXHAUST ISOLATION VALVE LEAK RATE EXCEEDS LIMIT AT	161852 P404
	#MULTIPLE HPCI	TURBINE EXHAUST LINE SNUBBER FAILURES AT PILGRIM 1#	160187 P822
	#SET POINT DRIFT IN RCIC	TURBINE EXHAUST PRESSURE SWITCHES AT HATCH 1#	155326 P307
	#HPCI	TURBINE FAILS TO REACH RATED SPEED AT VERMONT YANKEE#	156151 P570
	#RCIC	TURBINE FAILS TO RESET AT HATCH 2#	159311 P393
	#HPCI	TURBINE FAILS TO TRIP ON OVERSPEED AT HATCH 1#	159434 P332
FERRY 1#	#SET POINT DRIFT IN	TURBINE FIRST STAGE PRESSURE PERMISSIVE SWITCHES AT BROWNS	159418 P 68
BROWNS FERRY 3#	#	TURBINE FIRST STAGE PRESSURE SWITCH SET POINTS HIGH AT	159245 P114
	#ELECTRICAL AND MECHANICAL RCIC	TURBINE OVERSPEED ASSEMBLIES DAMAGED AT BROWNS FERRY 1#	155595 P 51
SETPOINT DRIFT AT BROWNS FERRY 3#	#	TURBINE PRESSURE PERMISSIVE AND PRESSURE SWITCHES HAVE	159108 P110
	#SET POINT DRIFT OCCURS ON	TURBINE PRESSURE PERMISSIVE SWITCHES AT BROWNS FERRY 2#	157743 P 88
	#SET POINT DRIFT IN HPCI	TURBINE PRESSURE SWITCH AT HATCH 2#	160519 P399
	#SET POINT DRIFT IN	TURBINE REACTOR SCRAM SWITCHES AT NINE MILE POINT 1#	160313 P444
	#HPCI	TURBINE REVERSING CHAMBERS CRACK AT DUANE ARNOLD#	156029 P 28
	#HPCI	TURBINE RUPTURE DISC FAILS AT BROWNS FERRY 2#	159340 P 91
	#HPCI	TURBINE SPEED SWINGS AT HATCH 1#	158798 P319
	#SET POINT DRIFT IN RCIC	TURBINE STEAM FLOW SWITCH AT PEACH BOTTOM 3#	155347 P491
	#SET POINT DRIFT IN RCIC	TURBINE STEAM LINE HIGH FLOW SWITCHES AT PEACH BOTTOM 2#	161779 P484
ARNOLD#	#RCIC	TURBINE TRIP AND THROTTLE VALVE FAILS TO OPEN AT DUANE	159059 P 15
	#RCIC	TURBINE TRIPPED ON REACTOR STARTUP AT HATCH 1#	160250 P318
	#HPCI	TURBINE TRIPS AT BROWNS FERRY 1#	157033 P 57
	#RCIC	TURBINE TRIPS AT BROWNS FERRY 1#	156961 P 60
	#RCIC	TURBINE TRIPS AT BROWNS FERRY 3#	159468 P110
	#HPCI	TURBINE TRIPS DURING TESTING AT BROWNS FERRY 2#	156017 P 86
	#HPCI	TURBINE TRIPS DURING TESTING AT VERMONT YANKEE#	154875 P566
	#	TURBINE VALVE CLOSURE TEST NOT PERFORMED AT DUANE ARNOLD#	161752 P 22
	#ONLY ONE DILUTION PUMP OPERATING FOR	TWENTY MINUTE PERIODS AT OYSTER CREEK#	153697 P448
	#RECIRCULATION PUMP TRIPS	TWICE AT BRUNSWICK 2#	155567 P170
	#CONTAINMENT OXYGEN CONCENTRATION EXCEEDS LIMITS	TWICE AT HATCH 1#	159627 P329
	#POWER SUPPLY FOR RCIC STEAM LEAK DETECTION SYSTEM FAILS	TWICE AT HATCH 2#	154621 P347
	#HPCI INJECTS INTO REACTOR VESSEL	TWICE AT HATCH 2#	159050 P409
	#TWO SERVICE WATER PUMPS EACH TRIP	TWICE AT PILGRIM 1#	160327 P521
	#	TWO CAD SYSTEM VALVES FAIL TO OPEN AT BRUNSWICK 2#	161653 P196
LACROSSE#	#	TWO CONTAINMENT ISOLATION VALVES EXCEED LEAK RATE AT	162536 P418

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VERMONT YANKEE@                                    # TWO CONTAINMENT ISOLATION VALVES EXCEED LEAK RATE LIMIT AT   161055 P581
                                                   # TWO CONTROL ROD DRIVE PUMPS INOPERABLE AT OYSTER CREEK@       162046 P466
                                                   # TWO CONTROL ROD POSITION INDICATIONS LOST AT BRUNSWICK 1@     163506 P157
                                                   # TWO CONTROL ROD SELECT SWITCHES INOPERABLE AT BRUNSWICK 2@    161651 P197
                                                   # TWO CONTROL RODS UNCOUPLE AT BRUNSWICK 2@                     154495 P161
OYSTER CREEK@                                      # TWO CRACKS FOUND IN THE CORE SPRAY SPARGER PIPING AT          154449 P450
BOTTOM 2@                                          # TWO DRYWELL VENT VALVES FOUND TO BE FULLY OPEN AT PEACH       154740 P474
                                                   # TWO FIRE DETECTION ALARMS INOPERABLE AT PILGRIM 1@            161596 P530
                                                   # TWO FIRE DOORS FAIL TO CLOSE AT FITZPATRICK@                  154651 P262
BRUNSWICK 1@                                       # TWO INSTRUMENT SENSING LINE ISOLATION VALVES CLOSE AT         156228 P131
MILLSTONE 1@                                       # TWO MAIN STEAM ISOLATION VALVES FAIL TO MEET LEAK RATE AT     160060 P423
                                                   # TWO MAIN STEAM LINE SUPPORT WELDS FAIL AT MILLSTONE 1@        161473 P424
                                          #UPDATE ON  TWO OPEN VENTILATION ISOLATION VALVES AT PEACH BOTTOM 3@    163505 P476
QUAD CITIES 2@                                     # TWO RHR DELAY TIMERS FAIL TO ACTUATE THE TIMER CONTACTS AT    156019 P584
                                                   # TWO SEISMIC SUPPORTS MAY BE INADEQUATE AT VERMONT YANKEE@     155471 P570
                                                   # TWO SERVICE WATER PUMPS EACH TRIP TWICE AT PILGRIM 1@         160327 P521
@                                                  # TWO SERVICE WATER SYSTEM SNUBBERS INOPERABLE AT BRUNSWICK 1   154508 P126
                                  #ONLY ONE ISOLATION VALVE FOUND ON  TWO SPARE LINES PENETRATING CONTAINMENT AT BROWNS FERRY 1@  155200 P 52
AT COOPER@                                         # TWO THROUGH-WALL CRACKS FOUND IN REC CRITICAL LOOP WELDS       155340 P243


DRESDEN 2@                                         # ULTRASONIC TESTING OF SCRAM DISCHARGE VOLUME MISSED AT        161793 P221
        #LEAKAGE RATE OF THREE CONTAINMENT ISOLATION VALVES  UNACCEPTABLE AT HATCH 2@                                 155432 P356
                  #HYDROGEN RECOMBINER RETURN VALVE LEAKAGE  UNACCEPTABLE AT HATCH 2@                                 155449 P358
HATCH 1@                                    #THREE  UNAUTHORIZED TRANSFERS OF SPECIAL NUCLEAR MATERIAL AT           161949 P343
  #BOTH CONTAINMENT ATMOSPHERE OXYGEN MONITORS CONCURRENTLY  UNAVAILABLE AT ARNOLD@                                  155551 P  3
                                        #TWO CONTROL RODS  UNCOUPLE AT BRUNSWICK 2@                                  154495 P161
                                          #CONTROL ROD  UNCOUPLED FROM DRIVE AT BROWNS FERRY 1@                      163330 P 78
                                          #CONTROL ROD  UNCOUPLED IN FULL WITHDRAWN POSITION AT DRESDEN 2@           155372 P210
                #INTACT BLISTERS FOUND ON THE TORUS COATING  UNDER THE WATER LINE AT BRUNSWICK 2@                    156076 P172
                                             #SOIL  UNDER TURBINE BUILDING CONTAMINATED AT LACROSSE@                 162530 P416
                  #STANDBY GAS TREATMENT POWER CABLES  UNDERSIZED AT HATCH 2@                                       156081 P389
ARNOLD@                                  #INSTRUMENT AC  UNDERVOLTAGE RELAY SETPOINT FALLS BELOW LIMIT AT DUANE    163373 P 24
                                           #POWER FROM  UNINTERRUPTABLE POWER SYSTEM INTERRUPTED AT VERMONT YANKEE@  157001 P571
                                  #STANDBY GAS TREATMENT  UNIT FAILS AT OYSTER CREEK@                                158994 P484
                                  #CRD HYDRAULIC CONTROL  UNIT INSTRUMENT READINGS DRIFT AT FITZPATRICK@             159226 P285
BAY@                                               # UNIT 1 TRIP TEST NOT PERFORMED WHEN REQUIRED AT HUMBOLDT      155480 P410
                                                   # UNQUALIFIED CAM SYSTEM INSTALLED AT BROWNS FERRY 1@           156945 P 61
ROCK POINT@                                        # UNQUALIFIED SPLICES AND TERMINAL BLOCKS DISCOVERED AT BIG     163386 P 46
POWER CABLES AT MONTICELLO@                        # UNQUALIFIED SPLICES DISCOVERED ON MSIV SOLENOID VALVE         156012 P433
                                      #SLC RELIEF VALVES  UNTIL PRESSURE EXCEEDS LIMIT AT QUAD CITIES 2@            154916 P581
              #SOURCE RANGE MONITORS FAIL TO MOVE AND GIVE  UNUSUAL INDICATION AT BRUNSWICK 2@                      158655 P179
                                       #SNUBBERS LOCK  UP AT HATCH 1@                                             158817 P328
                          #CORE SPRAY SNUBBER FAILS TO LOCK  UP AT OYSTER CREEK@                                   160033 P466
                          #SHOCK SUPPRESSOR FAILS TO LOCK  UP AT VERMONT YANKEE@                                   160897 P577
                                    #REACTOR WATER CLEAN-  UP ISOLATION VALVE FAILS TO CLOSE AT BROWNS FERRY 3@    156965 P106
                          #UPDATE REPORT ON REACTOR CLEAN-  UP SYSTEM PIPING INDICATIONS AT BIG ROCK POINT@        153974 P 29
          #LINEAR INDICATION FOUND IN REACTOR WATER CLEAN-  UP SYSTEM WELD AT BROWNS FERRY 1.@                      154615 P 48
                                  #REACTOR STARTED  UP WITH ONE CORE SPRAY LOOP INOPERABLE AT MONTICELLO@           158853 P634
                                                   # UPDATE CN CONTAINMENT HYDROGEN OXYGEN ANALYZERS AT HATCH 2@   163426 P369
BOTTOM 3@                                          # UPDATE ON CONTAINMENT ISOLATION VALVE FAILURE AT PEACH        161975 P496
AT BRUNSWICK 2@                                    # UPDATE ON CONTAINMENT OXYGEN CONCENTRATION EXCEEDING LIMIT    163503 P191
@                                                  # UPDATE ON CONTAINMENT SPRAY VALVE FAILURE AT PEACH BOTTOM 3   163583 P494
                                                   # UPDATE ON DEFECTIVE MSIV TORQUE SWITCH AT HATCH 2@            163462 P373
FERRY 3@                                           # UPDATE ON FAILURE OF 76 CONTROL RODS TO INSERT AT BROWNS      163405 P111
1, 2 AND 3@                                        # UPDATE ON HYDROGEN SENSOR QUALIFICATIONS AT BROWNS FERRY      163568 P 61
                                                   # UPDATE ON JET PUMPS FAILURE AT DRESDEN 3@                     163597 P226
                                                   # UPDATE ON LEAKY ADS VALVES AT HATCH 2@                        163426 P366
CITIES 1@                                          # UPDATE ON LEAKY CONTAINMENT ISOLATION VALVES AT QUAD          162541 P546
                                                   # UPDATE ON LPCI PIPE LEAKS AT DRESDEN 2@                       163598 P212
                                                   # UPDATE ON MISORIENTED FUEL ASSEMBLIES AT BROWNS FERRY 3@      163596 P 93
                                                   # UPDATE ON PRESSURE RELIEF VALVE FAILURE AT QUAD CITIES 2@     163490 P560
                                                   # UPDATE ON RCIC FLOW INDICATOR FAILURE AT BRUNSWICK 2@         161968 P189
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                                                   # UPDATE ON RHR RADWASTE DISCHARGE VALVE FAILURE AT COOPER@     163481 P258
                                                   # UPDATE ON RHR SERVICE WATER LOOP INOPERABLE AT BRUNSWICK 2@   161984 P192
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BOTTOM 3@                                          # UPDATE ON TWO OPEN VENTILATION ISOLATION VALVES AT PEACH      163595 P478
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                                                   # UPDATE REPORT OF LEAKING LPCI VALVE AT HATCH 1@               153741 P297
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@WIND DIRECTION CHANNEL FAILS	UPSCALE AT BROWNS FERRY 1*	154440 P 67
@CONTAINMENT ATMOSPHERE OXYGEN ANALYZER FAILS	UPSCALE AT BRUNSWICK 1*	160208 P150
@CONTAINMENT ATMOSPHERIC MONITOR FAILS	UPSCALE AT BRUNSWICK 2*	153734 P160
@DRYWELL TEMPERATURE RECORDER WAS STAMPING	UPSCALE AT HATCH 1*	159673 P326
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@LEAKAGE OF TORUS TO RB	VACUUM BREAKER EXCEEDS LIMIT AT PILGRIM 1*	154689 P503
@TORUS TO DRYWELL	VACUUM BREAKER FAILS AT DRESDEN 2*	158556 P211
@TORUS	VACUUM BREAKER FAILS AT HATCH 2*	156933 P372
@REACTOR BUILDING TO SUPPRESSION CHAMBER	VACUUM BREAKER FAILS AT OYSTER CREEK*	153938 P449
@TORUS TO DRYWELL	VACUUM BREAKER FAILS TC GIVE OPEN INDICATION AT DRESDEN 2*	160266 P214
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@TORUS/DRYWELL	VACUUM BREAKER FAILS TO OPEN AT HATCH 2*	160476 P396
@UPDATE ON	VACUUM BREAKER FAILURE AT HATCH 2*	163461 P385
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@TORUS	VACUUM BREAKER VALVE FAILED OPEN AT HATCH 2*	159629 P385
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@UPDATE REPORT OF LEAKING LPCI	VALVE AT HATCH 1*	153761 P297
@SET POINT DRIFT IN STANDBY LIQUID CONTROL RELIEF	VALVE AT HATCH 1*	156889 P303
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@SETPOINT DRIFT IN STANDBY LIQUID CONTROL DISCHARGE RELIEF	VALVE AT HATCH 2*	157072 P367
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@LPCI HEAT EXCHANGER SW OUTLET	VALVE BREAKER FOUND OPEN AT DRESDEN 3*	153944 P224
@RHR SUPPRESSION CHAMBER SUMP	VALVE BREAKER TRIPS AT QUAD CITIES 1*	155522 P539
@CONTROL AIR TUBING TO AUX SYSTEM COOLING	VALVE BROKEN AT BIG ROCK POINT*	154458 P 32
@HYDRAULIC ACCUMULATOR AIR	VALVE BROKEN OFF AT BROWNS FERRY 3*	161621 P115
@RCIC TRIP AND THROTTLE	VALVE CLOSES AND HPCI ISOLATION VALVE CLOSES AT HATCH 2*	156957 P376
@HPCI STEAM ISOLATION	VALVE CLOSES AT FITZPATRICK*	155517 P273
@RCIC TRIP AND THROTTLE VALVE CLOSES AND HPCI ISOLATION	VALVE CLOSES AT HATCH 2*	156957 P376
@MAIN STEAM ISOLATION	VALVE CLOSES TOO FAST AT BROWNS FERRY 3*	160060 P116
@DRYWELL PURGE	VALVE CLOSING TIME EXCEEDS LIMIT AT QUAD CITIES 1*	153948 P538
@TURBINE CONTROL	VALVE CLOSURE SCRAM FAILS TC RESET AT DRESDEN 2*	154620 P207
@MAIN TURBINE CONTROL	VALVE CLOSURE SWITCH RESPONSE TIME IS SLOW AT BRUNSWICK 2*	156930 P176
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@HPCI MINIMUM FLOW CONTROL	VALVE CYCLES AT HATCH 2*	156856 P375
@RIP	VALVE DOES NOT FULLY CLOSE AT BRUNSWICK 1*	156920 P142
@EMERGENCY FLOODING VENT	VALVE DOES NOT OPEN AT LA CROSSE*	157165 P413
@LEAK RATE OF HPCI TURBINE EXHAUST CHECK	VALVE EXCEEDS LIMIT AT MONTICELLO*	156239 P429
@LEAK RATE OF STANDBY LIQUID CONTROL	VALVE EXCEEDS LIMIT AT MONTICELLO*	156240 P429
@LEAK RATE OF TORUS VENT	VALVE EXCEEDS LIMIT AT MONTICELLO*	156241 P430
@LEAK RATE OF RCIC TURBINE EXHAUST CHECK	VALVE EXCEEDS LIMIT AT MONTICELLO*	156242 P431
@LEAK RATE OF TORUS INSTRUMENT AIR	VALVE EXCEEDS LIMIT AT MONTICELLO*	156243 P431
@LEAK RATE OF DRYWELL EQUIPMENT DRAIN SUMP	VALVE EXCEEDS LIMIT AT MONTICELLO*	156244 P432
@TORUS VACUUM BREAKER	VALVE FAILED OPEN AT HATCH 2*	159629 P385
@LPCI INJECTION	VALVE FAILED TO OPEN AT PEACH BOTTOM 3*	160140 P497
@RTGB CONTROL SWITCH FOR HPCI TORUS SUCTION	VALVE FAILS AT BRUNSWICK 1*	155397 P132
@CONTROL POWER TO RHR	VALVE FAILS AT COOPER*	155580 P243
@SUPPRESSION POOL COOLING INBOARD THROTTLE	VALVE FAILS AT COOPER*	159247 P253
@CONTAINMENT ISOLATION	VALVE FAILS AT COOPER*	160094 P254
@RECIR LOOP SAMPLE ISOLATION	VALVE FAILS AT MONTICELLO*	160374 P436
@HPCI STEAM SUPPLY ISOLATION	VALVE FAILS AT MONTICELLO*	159422 P436
@CONTAINMENT SPRAY ISOLATION	VALVE FAILS AT NINE MILE POINT 1*	158697 P441
@REACTOR BUILDING AUTOMATIC ISOLATION	VALVE FAILS AT OYSTER CREEK*	157306 P455
@AUTOMATIC DEPRESSURIZATION SYSTEM RELIEF	VALVE FAILS AT PILGRIM 1*	158834 P514
@SUPPRESSION CHAMBER COOLING	VALVE FAILS AT QUAD-CITIES 1*	157008 P542
@EMERGENCY EQUIPMENT COOLING WATER	VALVE FAILS CLOSED AT BROWNS FERRY 3*	161621 P120
@CONTAINMENT VACUUM BREAKER	VALVE FAILS CLOSED AT HATCH 2*	158445 P384
@REACTOR BUILDING VENTILATION SYSTEM ISOLATION	VALVE FAILS CLOSED AT QUAD CITIES 2*	155400 P552
@HPCI GOVERNOR	VALVE FAILS CLOSED AT VERMONT YANKEE*	155598 P560
@MAIN STEAM LINE DRAIN	VALVE FAILS IN MID POSITION AT HATCH 1*	154667 P301
@NEUTRALIZER TANK DISCHARGE	VALVE FAILS OPEN AT FITZPATRICK*	154649 P265
@AUTOMATIC DEPRESSURIZATION SYSTEM	VALVE FAILS TO ACTUATE AT BRUNSWICK 2*	160866 P189
@MAIN STEAM ISOLATION	VALVE FAILS TO CLOSE AT BIG ROCK POINT*	161674 P 42
@RHR INJECTION	VALVE FAILS TO CLOSE AT BROWNS FERRY 1*	156014 P 86

@DRYWELL SAMPLE ISOLATION	VALVE FAILS TO CLOSE AT BROWNS FERRY 1@	158031 P 62
@DRYWELL CONTROL AIR	VALVE FAILS TO CLOSE AT BROWNS FERRY 2@	160184 P 94
@REACTOR WATER CLEAN-UP ISOLATION	VALVE FAILS TO CLOSE AT BROWNS FERRY 3@	156965 P106
@RCIC MINIMUM FLOW BYPASS	VALVE FAILS TO CLOSE AT BROWNS FERRY 3@	159616 P112
@CONTAINMENT ATMOSPHERE MONITOR LINE	VALVE FAILS TO CLOSE AT BRUNSWICK 1@	156229 P129
@SUPPRESSION POOL EXHAUST	VALVE FAILS TO CLOSE AT BRUNSWICK 2@	160487 P188
@CONTAINMENT PURGE	VALVE FAILS TO CLOSE AT COOPER@	158582 P243
@DRYWELL EQUIPMENT DRAIN	VALVE FAILS TO CLOSE AT COOPER@	161894 P255
@RHR SERVICE WATER	VALVE FAILS TO CLOSE AT COOPER@	161044 P256
@LPCI	VALVE FAILS TO CLOSE AT DRESDEN 3@	158294 P228
@HPCI PUMP MINIMUM FLOW	VALVE FAILS TO CLOSE AT FITZPATRICK@	158301 P276
@RHR CONTAINMENT ISOLATION	VALVE FAILS TO CLOSE AT FITZPATRICK@	158610 P277
@CONTAINMENT ISOLATION	VALVE FAILS TO CLOSE AT FITZPATRICK@	160917 P293
@HPCI MINIMUM FLOW	VALVE FAILS TO CLOSE AT HATCH 1@	160868 P348
@HPCI MINIMUM FLOW	VALVE FAILS TO CLOSE AT HATCH 2@	156704 P351
@PLANT SERVICE WATER ISOLATION	VALVE FAILS TO CLOSE AT HATCH 2@	158108 P358
@RCIC STEAM SUPPLY LINE ISOLATION	VALVE FAILS TO CLOSE AT HATCH 2@	158643 P370
@HPCI ISOLATION	VALVE FAILS TO CLOSE AT HATCH 2@	158656 P379
@MAIN STEAM ISOLATION	VALVE FAILS TO CLOSE AT HATCH 2@	158245 P380
@RCIC OUTBOARD ISOLATION	VALVE FAILS TO CLOSE AT HATCH 2@	159319 P394
@DRYWELL SUMP ISOLATION	VALVE FAILS TO CLOSE AT MONTICELLO@	161895 P438
@RCIC STEAM SUPPLY	VALVE FAILS TO CLOSE AT PEACH BOTTOM 2@	160122 P480
@MAIN STEAM SAMPLE LINE ISOLATION	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	154597 P488
@FEEDWATER FLUSH ISOLATION	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	153676 P489
@CONTAINMENT SPRAY OUTBOARD ISOLATION	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	159095 P494
@CONTAINMENT ISOLATION	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	160137 P495
@CONTAINMENT ISOLATION	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	159650 P496
@CONTAINMENT VENTILATION ISOLATION	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	159440 P497
@HPCI	VALVE FAILS TO CLOSE AT PEACH BOTTOM 3@	161755 P500
@RCIC ISOLATION	VALVE FAILS TO CLOSE AT PILGRIM 1@	159365 P519
@RCIC OUTBOARD ISOLATION	VALVE FAILS TO CLOSE AT PILGRIM 1@	159536 P519
@MAIN STEAM LINE DRAIN ISOLATION	VALVE FAILS TO CLOSE AT PILGRIM 1@	159200 P520
@NITROGEN PURGE SUPPLY ISOLATION	VALVE FAILS TO CLOSE AT PILGRIM 1@	160212 P526
@CONTAINMENT ISOLATION	VALVE FAILS TO CLOSE AT PILGRIM 1@	160563 P532
@MAIN STEAM ISOLATION	VALVE FAILS TO CLOSE AT QUAD CITIES 1@	158708 P544
@ELECTROMATIC RELIEF	VALVE FAILS TO CLOSE AT QUAD CITIES 1@	160452 P546
@CONTAINMENT OXYGEN ANALYZER	VALVE FAILS TO CLOSE AT QUAD CITIES 2@	153687 P550
@RHR SERVICE WATER VAULT BED PLATE DRAIN	VALVE FAILS TO CLOSE AT QUAD CITIES 2@	153951 P551
@SUPPRESSION POOL COOLING	VALVE FAILS TO CLOSE AT QUAD CITIES 2@	158405 P556
@CONTAINMENT ISOLATION NITROGEN	VALVE FAILS TO CLOSE AT QUAD-CITIES 2@	159068 P558
@CONTAINMENT MONITORING ISOLATION	VALVE FAILS TO CLOSE AT VERMONT YANKEE@	156869 P572
@CONTAINMENT SUMP ISOLATION	VALVE FAILS TO CLOSE AT VERMONT YANKEE@	158722 P573
@MAIN STEAM ISOLATION	VALVE FAILS TO CLOSE IN TIME AT COOPER@	163531 P260
@REACTOR WATER CLEANUP SYSTEM ISOLATION	VALVE FAILS TO CLOSE IN TIME AT DUANE ARNOLD@	160868 P 20
@NITROGEN PURGE ISOLATION	VALVE FAILS TO CLOSE IN TIME AT PILGRIM 1@	158840 P515
@PRIMARY VENT	VALVE FAILS TO CLOSE IN TIME AT QUAD-CITIES 2@	161980 P542
@CONTAINMENT ISOLATION	VALVE FAILS TO INDICATE POSITION AT @BRUNSWICK 2@	161654 P196
@STANDBY LIQUID CONTROL RELIEF	VALVE FAILS TO OPEN AT BRUNSWICK 1@	159199 P147
@RCIC INJECTION	VALVE FAILS TO OPEN AT BRUNSWICK 2@	160525 P187
@HPCI TURBINE CONTROL	VALVE FAILS TO OPEN AT BRUNSWICK 2@	160082 P188
@SERVICE WATER	VALVE FAILS TO OPEN AT COOPER@	162522 P258
@HPCI STEAM SUPPLY	VALVE FAILS TO OPEN AT DRESDEN 2@	160566 P220
@LPCI INJECTION	VALVE FAILS TO OPEN AT DRESDEN 2@	156007 P228
@HPCI STEAM SUPPLY	VALVE FAILS TO OPEN AT DRESDEN 3@	160903 P238
@RCIC TURBINE TRIP AND THROTTLE	VALVE FAILS TO OPEN AT DUANE ARNOLD@	159059 P 15
@RCIC STEAM SUPPLY LINE	VALVE FAILS TO OPEN AT DUANE ARNOLD@	160501 P 21
@CORE SPRAY	VALVE FAILS TO OPEN AT FITZPATRICK@	153729 P266
@CORE SPRAY	VALVE FAILS TO OPEN AT FITZPATRICK@	154660 P267
@RHR SYSTEM DISCHARGE TO RADWASTE	VALVE FAILS TO OPEN AT FITZPATRICK@	158300 P276
@CONTAINMENT SPRAY	VALVE FAILS TO OPEN AT HATCH 1@	156991 P315
@SHUTDOWN COOLING SUCTION	VALVE FAILS TO OPEN AT HATCH 1@	158754 P321
@RHR INBOARD INJECTION	VALVE FAILS TO OPEN AT HATCH 1@	159314 P335
@HPCI INJECTION	VALVE FAILS TO OPEN AT HATCH 2@	159157 P387
@HPCI SUPPRESSION CHAMBER SUCTION	VALVE FAILS TO OPEN AT HATCH 2@	159217 P390
@ELECTROMAGNETIC RELIEF	VALVE FAILS TO OPEN AT NINE MILE POINT 1@	159911 P443
@ELECTROMATIC RELIEF	VALVE FAILS TO OPEN AT OYSTER CREEK@	154450 P449
@STANDBY GAS TREATMENT FILTER ASSEMBLY ISOLATION	VALVE FAILS TO OPEN AT PEACH BOTTOM 2@	161071 P483
@LPCI INJECTION	VALVE FAILS TO OPEN AT PEACH BOTTOM 3@	155616 P490
@LPCI INJECTION	VALVE FAILS TO OPEN AT PEACH BOTTOM 3@	156969 P493
@CORE SPRAY PUMP FAILS TO START AND	VALVE FAILS TO OPEN AT PILGRIM 1@	158613 P508
@RELIEF	VALVE FAILS TO OPEN AT PILGRIM 1@	159499 P520
@CORE SPRAY	VALVE FAILS TO OPEN AT PILGRIM 1@	160251 P525
@TARGET ROCK SAFETY RELIEF	VALVE FAILS TO OPEN AT QUAD CITIES 1@	158751 P544
@CORE SPRAY	VALVE FAILS TO OPEN AT QUAD CITIES 2@	160067 P559
@RCIC PUMP DISCHARGE	VALVE FAILS TO OPEN AT QUAD CITIES 2@	161458 P560
@PRESSURE RELIEF	VALVE FAILS TO OPEN AT QUAD-CITIES 2@	156942 P555
@RHR CONTAINMENT COOLING	VALVE FAILS TO OPEN AT QUAD-CITIES 2@	160878 P560
@ELECTROMAGNETIC RELIEF	VALVE FAILS TO OPEN AT QUAD-CITIES 2@	163334 P564
@HPCI STOP	VALVE FAILS TO OPEN COMPLETELY AT BROWNS FERRY 1@	156211 P 96
@LPCI	VALVE FAILS TO OPEN FULLY AT QUAD-CITIES 2@	160867 P559
@RECIRCULATION PUMP DISCHARGE	VALVE FAILS TO OPEN FULLY AT VERMONT YANKEE@	157039 P571
@HPCI	VALVE FAILS TO OPERATE AT BROWNS FERRY 1@	160179 P 67
@RHR TORUS RETURN	VALVE FAILS TO OPERATE AT BROWNS FERRY 1@	160158 P 72
@RECIRC SYSTEM FLOW CONTROL	VALVE FAILS TO OPERATE AT BROWNS FERRY 2@	154037 P 89
@INBOARD THROTTLE ISOLATION	VALVE FAILS TO OPERATE AT COOPER@	159468 P250
@HPCI	VALVE FAILS TO OPERATE AT DRESDEN 2@	157698 P212
@HPCI	VALVE FAILS TO OPERATE AT DRESDEN 2@	157686 P213

#CORE SPRAY	VALVE FAILS TO REOPEN DURING TEST AT FITZPATRICK#	154650 P262
#RHR-SW CHECK	VALVE FAILS TO SEAT AT VERMONT YANKEE#	160297 P376
#HPCI STOP	VALVE FAILS TO STAY OPEN AT BROWNS FERRY 1#	153490 P 46
#RCIC TRIP AND THROTTLE	VALVE FAILS TO TRIP AT BRUNSWICK 2#	154678 P166
#UPDATE ON RHR RADWASTE DISCHARGE	VALVE FAILURE AT COOPER#	163481 P250
#UPDATE REPORT ON CONTAINMENT ISOLATION	VALVE FAILURE AT FITZPATRICK#	163365 P278
#UPDATE ON CONTAINMENT SPRAY	VALVE FAILURE AT PEACH BOTTOM 3#	163583 P494
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#HPCI INJECTS INTO REACTOR	VESSEL TWICE AT HATCH 2#		159050 P409
#CONTROL ROD DRIVE PUMP	VIBRATES EXCESSIVELY AT BIG ROCK POINT#		155473 P 34
#SERVICE WATER PUMP	VIBRATES EXCESSIVELY AT COOPER#		162524 P257
#SECONDARY CONTAINMENT INTEGRITY	VIOLATED AT BROWNS FERRY 2#		161894 P 90
#SECONDARY CONTAINMENT INTEGRITY MOMENTARILY	VIOLATED AT HATCH 1#		153739 P303
#SECONDARY CONTAINMENT INTEGRITY MOMENTARILY	VIOLATED AT HATCH 1#		156042 P300
#SECONDARY CONTAINMENT INTEGRITY MOMENTARILY	VIOLATED AT HATCH 1#		155410 P310
#SECONDARY CONTAINMENT INTEGRITY	VIOLATED AT NINE MILE POINT 1#		159258 P405
#CONTAINMENT INTEGRITY	VIOLATED AT OYSTER CREEK#		160234 P401

	@CONTAINMENT INTEGRITY	VIOLATED AT OYSTER CREEK@	161667 P467
	@COMPONENT COOLING WATER PUMP REDUNDANCY	VIOLATED AT PILGRIM 1@	160328 P321
	@PRIMARY CONTAINMENT INTEGRITY	VIOLATED AT QUAD CITIES 1@	162080 P350
	@CONTAINMENT INTEGRITY	VIOLATED BY REMOVING MSIV INTERNALS AT MONTICELLO@	156047 P431
	@CONTAINMENT INTEGRITY	VIOLATED DURING REFUELING AT PEACH BOTTOM 2@	156973 P478
	@UPDATE ON SINGLE FAILURE CRITERION	VIOLATION BY SW VALVE AT HATCH 2@	163451 P363
	@4160	VOLT BREAKER FAILS TO CLOSE AT COOPER@	161593 P257
	@SWITCHYARD 125	VOLT DC BATTERY CHARGER FAILS AT PILGRIM 1@	153466 P300
	@DIESEL GENERATOR FAILS TO REACH OUTPUT	VOLTAGE AT BIG ROCK POINT@	161960 P 43
	@DIESEL GENERATOR FAILS TO REACH RATED	VOLTAGE AT HATCH 2@	155313 P350
	@DIESEL GENERATOR FAILS TO RESPOND TO	VOLTAGE CONTROL AT DUANE ARNOLD@	160801 P 21
	@BATTERY	VOLTAGE INDICATION READS LOW AT BRUNSWICK 1@	159138 P150
	@POTENTIAL FOR HIGH OR LOW	VOLTAGE ON 4160 AND 480V SYSTEMS EXISTS AT VERMONT YANKEE@	155497 P570
	@DIESEL GENERATOR MANUAL	VOLTAGE REGULATOR INOPERABLE AT HATCH 1@	156095 P309
@BRUNSWICK 1@	@SCRAM DISCHARGE	VOLUME DRAIN LINE PIPE SUPPORTS REQUIRE MODIFICATION AT	159105 P143
	@SCRAM DISCHARGE	VOLUME DRAIN VALVE LEAKS AT DUANE ARNOLD@	159208 P 13
	@SCRAM DISCHARGE	VOLUME FAILS TO DRAIN AND ALARMS CLEAR AT DRESDEN 3@	158229 P235
	@CONTAINMENT ATMOSPHERE DILUTION TANK	VOLUME FALLS BELOW LIMIT AT BRUNSWICK 1@	158058 P148
	@SCRAM DISCHARGE	VOLUME HIGH HIGH LEVEL ALARM FAILS AT DRESDEN 2@	163371 P223
ARNOLD@	@SCRAM DISCHARGE	VOLUME HIGH LEVEL INSTRUMENT TEST NOT PERFORMED AT DUANE	161926 P 25
HATCH 2@	@SCRAM DISCHARGE	VOLUME HIGH LEVEL ROD WITHDRAWAL BLOCK SWITCH FAILS AT	159159 P380
	@SCRAM DISCHARGE	VOLUME HIGH LEVEL SWITCH FAILS AT BROWNS FERRY 1@	158293 P 65
	@SCRAM DISCHARGE	VOLUME HIGH LEVEL SWITCHES FAIL AT HATCH 2@	159584 P391
	@SCRAM DISCHARGE	VOLUME LEVEL SWITCH INOPERABLE AT BROWNS FERRY 2@	161044 P 99
	@ULTRASONIC TESTING OF SCRAM DISCHARGE	VOLUME MISSED AT DRESDEN 2@	161793 P321
	@SCRAM DISCHARGE	VOLUME RESIDUAL WATER CHECK NOT PERFORMED AT HATCH 1@	160138 P337
BOTTON 2@	@SCRAM DISCHARGE	VOLUME VENT AND DRAIN VALVES FAIL TO OPERATE AT PEACH	159044 P479

	@THROUGH-	WALL CRACK FOUND ON REC PUMP DISCHARGE PIPE WELD AT COOPER@	154053 P341
	@TWO THROUGH-	WALL CRACKS FOUND IN REC CRITICAL LOOP WELDS AT COOPER@	155340 P263
	@FIRE	WALL INTEGRITY BREACHED AT HATCH 2@	160801 P401
	@NINE CONTROL BUILDING	WALLS OVERSTRESSED AT HATCH 1@	160063 P362
	@DRYWELL TO TEMPERATURE RECORDER	WAS NOT STAMPING AT HATCH 1@	159669 P327
	@DRYWELL TEMPERATURE RECORDER	WAS STAMPING UPSCALE AT HATCH 1@	159673 P326
	@SCREEN	WASH PUMP DISCHARGE VALVE LEAKS AT HUMBOLDT BAY 3@	160864 P411
	@SCREEN	WASH PUMP MOTOR OVERHEATS AT HUMBOLDT BAY@	159437 P411
	@SCREEN	WASH PUMP PIPING LEAKS AT HUMBOLDT BAY 3@	163357 P411
	#	WASTE LINE VALVE OPERATOR FAILS TO OPEN AT COOPER@	162519 P230
	#	WASTE OIL STORAGE AREA SOIL CONTAMINATED AT HATCH 1 AND 2@	162080 P345
	@LIQUID	WASTE RELEASED WITHOUT A PRIOR ANALYSIS AT HATCH 1@	156080 P307
	#	WASTE SAMPLE TANK ACTIVITY EXCEEDS LIMIT AT DRESDEN 2@	154927 P209
	@RADIOACTIVITY IN	WASTE SAMPLE TANK EXCEEDS LIMIT AT DRESDEN 2@	153495 P206
	@DEGRADED FIRE BARRIERS FOUND AND	WATCH NOT ESTABLISHED AT OYSTER CREEK@	158250 P457
	@FIRE	WATCH NOT ESTABLISHED IN TIME AT LACROSSE@	161890 P418
ARNOLD@	@PROPER FIRE	WATCH NOT ESTABLISHED IN CABLE SPREADING ROOM AT DUANE	158304 P 8
	@FIRE	WATCH REMOVED FROM CABLE SPREADING ROOM AT ARNOLD@	154874 P 3
	@RHR SERVICE	WATER BOOSTER PUMP INOPERABLE AT COOPER@	159521 P240
	@SCRAM DISCHARGE VOLUME RESIDUAL	WATER CHECK NOT PERFORMED AT HATCH 1@	160139 P337
FERRY 3@	@REACTOR	WATER CLEAN-UP ISOLATION VALVE FAILS TO CLOSE AT BROWNS	156065 P106
	@LINEAR INDICATION FOUND IN REACTOR	WATER CLEAN-UP SYSTEM WELD AT BROWNS FERRY 1.@	156618 P 68
	@LEAK IN REACTOR	WATER CLEANUP HEAT EXCHANGER LINE AT DRESDEN 3@	161882 P237
	@REACTOR	WATER CLEANUP PIPE AND SNUBBER FAIL AT DRESDEN 3@	156207 P230
	@REACTOR	WATER CLEANUP PIPE CRACKS AT HATCH 1@	158724 P389
	@UPDATE ON REACTOR	WATER CLEANUP SUCTION LINE CRACKED AT VERMONT YANKEE@	163403 P579
	@REACTOR	WATER CLEANUP SYSTEM INSTRUMENT LINE LEAKS AT DRESDEN 2@	159439 P217
	@REACTOR	WATER CLEANUP SYSTEM ISOLATION VALVE FAILS TO CLOSE IN	160855 P 20
TIME AT DUANE ARNOLD@	@REACTOR	WATER CLEANUP SYSTEM PIPE CRACKS AT BRUNSWICK 2@	157059 P174
	@SET POINT DRIFT IN REACTOR	WATER CLEANUP TEMPERATURE SWITCH AT PEACH BOTTON 3@	160431 P498
	@REACTOR	WATER CONDUCTIVITY EXCEEDS LIMIT AT PILGRIM 1@	159277 P519
	@CIRCULATING	WATER DELTA T EXCEEDS LIMIT AT PILGRIM 1@	161940 P534
	@CIRCULATING	WATER DELTA TEMPERATURE EXCEEDS LIMIT AT NINE MILE POINT 1@	158694 P442
	@SERVICE	WATER DIESEL GENERATOR FAILS TO START AT LACROSSE@	160454 P415
2@	@SERVICE	WATER DISCHARGE LINE SNUBBER FOUND INOPERABLE AT BRUNSWICK	155320 P169
	@CORE TORUS	WATER DRAINED THROUGH CORE SPRAY SYSTEM AT BRUNSWICK 1@	158314 P133
FERRY 3@	@COOLING	WATER FLOW TO RHR PUMP SEAL FALLS BELOW LIMIT AT BROWNS	159393 P114
BROWNS FERRY 1@	@NO	WATER FLOWS THROUGH CORE SPRAY SYSTEM ROOM COOLER AT	157700 P 62
MILLSTONE 1@	#	WATER HAMMER OCCURS IN ISOLATION CONDENSER PIPING AT	153942 P419
	@SERVICE	WATER HEADER ANTI-SIPHON PIPE SNUBBER FAILS AT BRUNSWICK 1@	163391 P150
	@DG COOLING	WATER HEAT EXCHANGER LEAKS AT DRESDEN 2@	159532 P216
RCC@ PIPING AT BROWNS FERRY 1@	#	WATER IMPINGEMENT FROM RECIRC LINE BREAK MIGHT DAMAGE	155207 P 53
	@COMPONENT COOLING	WATER INOPERABLE AT PILGRIM 1@	160532 P528
	@PLANT SERVICE	WATER ISOLATION VALVE FAILS TO CLOSE AT HATCH 2@	156108 P350
@	@RADIOACTIVE	WATER LEAKS FROM CONDENSATE TRANSFER PIPING AT OYSTER CREEK	155566 P451
	@TORUS	WATER LEVEL BELOW LIMIT AT HATCH 2@	160802 P403
	@TORUS	WATER LEVEL DROPS BELOW LIMIT AT FITZPATRICK@	154666 P265
	@TORUS	WATER LEVEL EXCEEDS LIMIT AT FITZPATRICK@	155550 P269
	@REACTOR LOW	WATER LEVEL FAILS TO ACTUATE AT BRUNSWICK 1@	160536 P155
	@TORUS	WATER LEVEL FALLS BELOW LIMIT AT DUANE ARNOLD@	159215 P 13
	@TORUS	WATER LEVEL FALLS BELOW LIMIT AT FITZPATRICK@	156064 P282
	@REACTOR	WATER LEVEL INDICATION SWITCH FAILS AT BRUNSWICK 2@	160040 P186
	@TORUS	WATER LEVEL INDICATOR FAILS AT PILGRIM 1@	161937 P535
	@TORUS	WATER LEVEL INSTRUMENT READS DOWNSCALE AT HATCH 2@	158297 P367
	@TORUS	WATER LEVEL PUMPED DOWN BELOW LIMIT AT DUANE ARNOLD@	163370 P 25
	@TORUS	WATER LEVEL RECORDER INOPERABLE AT HATCH 1@	159291 P334

	@SET POINT DRIFT IN LOW	WATER LEVEL SCRAM SWITCH AT MILLSTONE 1@	160923 P424
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SENSOR AT OYSTER CREEK@	160148 P465
FITZPATRICK@	@TORUS	WATER LEVEL SENSOR FAILS TO INDICATE ACTUAL LEVEL AT	159134 P286
ROCK POINT@	@REACTOR	WATER LEVEL SENSOR REMOVED FROM SERVICE FOR VENTING AT BIG	160071 P 40
	@UPDATE REPORT ON PRIMARY SYSTEM	WATER LEVEL SENSORS AT BIG ROCK POINT@	153973 P 30
	@SET POINT DRIFT IN REACTOR	WATER LEVEL SENSORS AT OYSTER CREEK@	159672 P463
	@LO LO LO REACTOR	WATER LEVEL SETPOINT RAISED AT NINE MILE POINT 1@	156932 P440
	@SET POINT DRIFT IN REACTOR	WATER LEVEL SWITCH AT BROWNS FERRY 2@	155209 P 01
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SWITCH AT BRUNSWICK 1@	160301 P139
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SWITCH AT BRUNSWICK 1@	156932 P143
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SWITCH AT BRUNSWICK 2@	155938 P178
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SWITCH AT BRUNSWICK 2@	161652 P197
	@SET POINT DRIFT IN REACTOR	WATER LEVEL SWITCH AT DRESDEN 2@	155197 P208
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SWITCH AT QUAD CITIES 1@	156912 P543
	@REACTOR	WATER LEVEL SWITCH FAILS AT BRUNSWICK 1@	158545 P144
	@REACTOR	WATER LEVEL SWITCH FAILS AT HATCH 2@	158674 P382
	@REACTOR	WATER LEVEL SWITCH FAILS AT HATCH 2@	158675 P382
	@TORUS	WATER LEVEL SWITCH FAILS TO ACTUATE AT BRUNSWICK 2@	155572 P167
	@REACTOR	WATER LEVEL SWITCH FAILS TO OPERATE AT BROWNS FERRY 2@	156438 P 80
CITIES 1@	@REACTOR LOW-LOW	WATER LEVEL SWITCH FAILS TO OPERATE PROPERLY AT QUAD	155309 P540
	@REACTOR LOW	WATER LEVEL SWITCH FAILS TO TRIP AT BRUNSWICK 1@	156080 P131
	@DRIFT IN REACTOR	WATER LEVEL SWITCH SET POINT AT FITZPATRICK@	161717 P294
	@REACTOR LOW	WATER LEVEL SWITCH SETPOINT INCORRECT AT BROWNS FERRY 2@	159655 P 90
	@REACTOR LOW	WATER LEVEL SWITCH SETPOINT IS INCORRECT AT BRUNSWICK 2@	159356 P184
	@REACTOR LOW	WATER LEVEL SWITCH STICKS CLOSED AT BRUNSWICK 2@	158732 P180
	@REACTOR	WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3@	158749 P232
	@REACTOR	WATER LEVEL SWITCH TRIPS BELOW SETPOINT AT DRESDEN 3@	158750 P233
	@DRIFT IN REACTOR LOW	WATER LEVEL SWITCHES AT BRUNSWICK 1@	163468 P157
	@SET POINT DRIFT IN REACTOR LOW	WATER LEVEL SWITCHES AT BRUNSWICK 2@	161069 P182
	@SET POINT DRIFT IN REACTOR	WATER LEVEL SWITCHES AT FITZPATRICK@	163361 P295
	@SET POINT DRIFT IN REACTOR LO-LO-LO	WATER LEVEL SWITCHES AT OYSTER CREEK 1@	161873 P468
	@REACTOR	WATER LEVEL SWITCHES EXCEED SET POINT LIMIT AT PILGRIM 1@	160365 P521
	@REACTOR	WATER LEVEL SWITCHES FAIL AT BROWNS FERRY 2@	158537 P107
	@SET POINT DRIFT IN REACTOR	WATER LEVEL TRANSMITTER AT BIG ROCK POINT@	158777 P 37
	@NARROW RANGE TORUS	WATER LEVEL TRANSMITTER OUT OF CALIBRATION AT HATCH 2@	154948 P348
	@HPCI REACTOR HIGH	WATER LEVEL TRIP INOPERABLE AT BROWNS FERRY 1@	156011 P 55
	@SET POINT DRIFT IN RCIC REACTOR	WATER LEVEL TRIP SWITCH AT BROWNS FERRY 3@	159284 P113
	@INTACT BLISTERS FOUND ON THE TORUS COATING UNDER THE	WATER LINE AT BRUNSWICK 2@	156076 P172
FERRY 3@	@RESTRICTION IN COOLING	WATER LINE FOR DIESEL GENERATOR HEAT EXCHANGER AT BROWNS	157438 P108
FERRY 3@	@RESTRICTION IN COOLING	WATER LINE FOR RHR PUMP SEAL HEAT EXCHANGER AT BROWNS	157437 P108
	@SERVICE	WATER LINE INADEQUATELY SUPPORTED AT HATCH 2@	160511 P348
	@UPDATE ON RHR SERVICE	WATER LOOP INOPERABLE AT BRUNSWICK 2@	161984 P192
	@RHR SERVICE	WATER LOOP INOPERABLE AT HATCH 1@	159316 P331
	@SERVICE	WATER PIPE SNUBBER FAILS AT BRUNSWICK 2@	162724 P190
FERRY 1@	@RB CLOSED COOLING	WATER PIPING SEISMIC RESTRAINTS NOT INSTALLED AT BROWNS	156610 P 48
	@SERVICE	WATER PIPING SUPPORTS DEGRADED AT BROWNS FERRY 1@	160515 P 75
	@RHR SERVICE	WATER PRESSURE ALARM FAILS AT BRUNSWICK 2@	161656 P192
HATCH 1@	@RHR SERVICE	WATER PUMP BEARING COOLING WATER VALVES FOUND CLOSED AT	158611 P316
AT HATCH 1@	@RHR SERVICE	WATER PUMP COOLING DOES NOT MEET SINGLE FAILURE CRITERION	157123 P314
	@STANDBY SERVICE	WATER PUMP DOES NOT MEET OPERATING SPECS AT HATCH 1@	157721 P302
	@HEAD DEVELOPED BY PLANT SERVICE	WATER PUMP EXCEEDS LIMIT AT HATCH 1@	156130 P310
	@RHR SERVICE	WATER PUMP FAILS TO MEET REQUIREMENTS AT PENTICELLO@	156875 P431
	@RHR SERVICE	WATER PUMP FAILS TO START AT BRUNSWICK 1@	155595 P129
	@RHR SERVICE	WATER PUMP FAILS TO START AT BRUNSWICK 1@	155309 P134
	@RHR SERVICE	WATER PUMP FLOW DROPS SUDDENLY AT HATCH 2@	155435 P357
	@SERVICE	WATER PUMP FLOW RATE FALLS BELOW LIMIT AT HATCH 1@	158601 P318
	@STANDBY SERVICE	WATER PUMP INOPERABLE AT HATCH 2@	161770 P492
	@DIESEL GENERATOR COOLING	WATER PUMP MOTOR INOPERABLE AT QUAD-CITIES 1@	161888 P549
	@COMPONENT COOLING	WATER PUMP REDUNDANCY VIOLATED AT PILGRIM 1@	160328 P521
	@PLANT SERVICE	WATER PUMP SEQUENCED TO BUS TOO SOON AT HATCH 2@	156122 P360
	@RHR SERVICE	WATER PUMP TIMER OUT OF TOLERANCE AT BROWNS FERRY 1@	156212 P 56
	@STANDBY DIESEL SERVICE	WATER PUMP TRIPS AT HATCH 1@	153595 P298
	@SALT SERVICE	WATER PUMP TRIPS AT PILGRIM 1@	159637 P516
	@SERVICE	WATER PUMP VIBRATES EXCESSIVELY AT COOPER@	162526 P257
	@TWO SERVICE	WATER PUMPS EACH TRIP TWICE AT PILGRIM 1@	160327 P521
	@RHR SERVICE	WATER PUMPS FAIL AT HATCH 2@	158671 P381
	@RHR SERVICE	WATER PUMPS FAIL FLOW TEST AT BRUNSWICK 2@	154877 P170
	@RHR SERVICE	WATER PUMPS FAIL TO PROVIDE SUFFICIENT FLOW AT FITZPATRICK@	163227 P286
	@RHR SERVICE	WATER PUMPS FAIL TO START AT BRUNSWICK 2@	160456 P187
	@ALL SERVICE	WATER PUMPS FAILS TO START AT VERMONT YANKEE@	155992 P569
	@CONTAMINATED	WATER PUMPS SECURED FOR MAINTENANCE AT BRUNSWICK 2@	163397 P203
FITZPATRICK@	@REACTOR	WATER RELEASED WITHOUT SAMPLING AT ARNOLD@	156218 P 27
	@REACTOR	WATER SAMPLES INDICATE HIGH CHLORIDE CONCENTRATION AT	155291 P272
	@FIRE	WATER SAMPLES NOT TAKEN AT HATCH 1@	159265 P331
	@RIVER	WATER STORAGE TANK LEVEL DROPS BELOW LIMIT AT HATCH 1@	157290 P313
	@DIESEL GENERATOR SERVICE	WATER SUPPLY LOOP OUT OF SERVICE AT DUANE ARNOLD@	160458 P 18
	@SEISMIC DESIGN DEFICIENCY IN SERVICE	WATER SUPPLY VALVES FAIL AT BRUNSWICK 1@	156993 P141
	@TWO SERVICE	WATER SYSTEM AT PILGRIM 1@	160551 P531
	@RIVER	WATER SYSTEM SNUBBERS INOPERABLE AT BRUNSWICK 1@	154528 P126
		WATER TEMPERATURE EXCEEDS LIMIT AT OYSTER CREEK@	159137 P471
		WATER TEMPERATURE IN CREEK EXCEEDS LIMIT AT OYSTER CREEK@	160357 P472
	@CONDENSER COOLING	WATER TEMPERATURE LIMIT EXCEEDED AT COOPER@	159493 P249
	@CONDENSER COOLING	WATER TEMPERATURE LIMIT EXCEEDED AT COOPER@	159469 P249
	@CONDENSER COOLING	WATER TEMPERATURE LIMIT EXCEEDED AT COOPER@	159485 P251
	@CONDENSER COOLING	WATER TEMPERATURE LIMIT EXCEEDED AT COOPER@	159468 P251
	@CONDENSER COOLING	WATER TEMPERATURE LIMIT EXCEEDED AT COOPER@	159491 P251
	@TORUS AIR AND	WATER TEMPERATURE RECORDER FAILS AT HATCH 1@	158597 P316

#RIVER	WATER TEMPERATURE RISE EXCEEDS LIMIT AT BROWNS FERRY 1*	160156 P 73
#CONDENSER COOLING	WATER TEMPERATURE RISE EXCEEDS LIMIT AT PILGRIM 1*	155398 P502
#BOTH SERVICE	WATER TRAINS INOPERABLE AT HATCH 1*	159408 P338
FAILED AT QUAD #RIVER	WATER TRAVELING SCREEN FAILS WHILE REDUNDANT SYSTEM IS	159051 P 14
#EMERGENCY EQUIPMENT COOLING	WATER VALVE FAILS CLOSED AT BROWNS FERRY 3*	161821 P120
#RHR SERVICE	WATER VALVE FAILS TO CLOSE AT COOPER*	161844 P256
#SERVICE	WATER VALVE FAILS TO OPEN AT COOPER.*	162522 P258
#RHR SERVICE WATER PUMP BEARING COOLING	WATER VALVES FOUND CLOSED AT HATCH 1*	158611 P316
CITIES 2* #RHR SERVICE	WATER VAULT BED PLATE DRAIN VALVE FAILS TO CLOSE AT QUAD	153951 P551
#RHR SERVICE	WATER VAULT PENETRATION LEAKS AT QUAD CITIES 2*	154915 P552
#LINEAR INDICATION FOUND IN REACTOR WATER CLEAN-UP SYSTEM	WELD AT BROWNS FERRY 1.*	154615 P 48
#LINEAR INDICATION FOUND ON RECIRC PUMP REDUCING INSERT	WELD AT BRUNSWICK 2*	155407 P171
#THROUGH-WALL CRACK FOUND ON REC PUMP DISCHARGE PIPE	WELD AT COOPER*	154053 P241
#FLAW FOUND IN CORE SPRAY PIPE	WELD AT COOPER*	156899 P246
#CRACK DISCOVERED IN CORE SPRAY SPARGER	WELD AT VERMONT YANKEE*	163501 P577
#STEAM SUPPLY PIPING NOZZLE	WELD CRACKS AT MILLSTONE 1*	161471 P425
#CRACKED	WELD IN STRUCTURAL STEEL BEAM AT BRUNSWICK 2*	161843 P195
#TWO THROUGH-WALL CRACKS FOUND IN REC CRITICAL LOOP	WELDS AT COOPER*	155340 P243
#TWO MAIN STEAM LINE SUPPORT	WELDS FAIL AT MILLSTONE 1*	161470 P424
#A NUMBER OF SRM PROBLEMS	WERE ENCOUNTERED AT FITZPATRICK*	154505 P263
#ELECTROMATIC RELIEF VALVE SENSOR SETPOINTS	WERE TOO HIGH AT OYSTER CREEK*	160261 P458
#RCIC TRUBINE	WHEEL DAMAGED AT COOPER*	157032 P245
#RCIC VALVE TRANSFERS OPEN	WHEN BREAKER CONTACT SHORTS AT COOPER*	157036 P244
#REACTOR SCRAMS	WHEN BREAKER FAILS TO CLOSE AT BROWNS FERRY 3*	160152 P117
#ONLY ONE DILUTION PUMP OPERATING	WHEN INTAKE TEMPERATURE BELOW 60 F AT OYSTER CREEK*	159070 P471
#CONTAINMENT PURGE OPERATED TOO LONG	WHEN INTEGRITY REQUIRED AT HATCH 2*	158652 P380
#DIESEL GENERATOR PINION GEARS FAIL TO DISENGAGE	WHEN REQUIRED AT DRESDEN 2*	153494 P207
#REACTOR COOLANT SAMPLES NOT TAKEN	WHEN REQUIRED AT FITZPATRICK*	154661 P266
#ROD SEQUENCE CONTROL SYSTEM FAILS TO COME INTO SERVICE	WHEN REQUIRED AT FITZPATRICK*	155525 P271
#HPCI SYSTEM NOT OPERABLE	WHEN REQUIRED AT HATCH 1*	156091 P309
#ROD BLOCK MONITOR NOT TESTED	WHEN REQUIRED AT HATCH 1*	155411 P310
#ELECTRICAL POWER SOURCES NOT TESTED	WHEN REQUIRED AT HATCH 2*	154962 P350
#UNIT 1 TRIP TEST NOT PERFORMED	WHEN REQUIRED AT HUMBOLDT BAY*	155480 P410
#EMERGENCY VENT SYSTEM CHARCOAL NOT ANALYZED	WHEN REQUIRED AT NINE MILE POINT 1*	154446 P439
#MAIN STATION AND DG BATTERIES NOT TESTED	WHEN REQUIRED AT OYSTER CREEK*	155443 P454
#APRM REMAINS INOPERABLE	WHEN RETURNED TO SERVICE AT FITZPATRICK*	156220 P273
#CONTROL ROD POSITION LIGHTS REMAIN ON	WHEN RODS MOVED AT OYSTER CREEK*	158695 P456
#DIESEL GENERATOR FAILS TO SYNCRONIZE	WHILE REDUNDANT DIESEL DOWN AT OYSTER CREEK*	155999 P455
#RIVER WATER TRAVELING SCREEN FAILS	WHILE REDUNDANT SYSTEM IS FAILED AT QUAD ARNOLD*	159051 P 14
#	WIND DIRECTION CHANNEL FAILS UPSCALE AT BROWNS FERRY 1*	154440 P 47
#UPDATE REPORT ON LOST	WIND DIRECTION INDICATION AT BROWNS FERRY 1, 2 AND 3*	161868 P 70
#	WIND DIRECTION INDICATOR FAILS AT BROWNS FERRY 1*	160225 P 70
#DIESEL GENERATOR LOWER CRANKSHAFT MAIN BEARING	WIPED AT ARNOLD*	155401 P 6
#DIESEL GENERATOR LOWER CRANKSHAFT THRUST BEARING	WIPED AT ARNOLD*	155403 P 7
#LPRM'S NOT PROPERLY	WIRED AT FITZPATRICK 1*	161782 P294
#SOURCE RANGE MONITOR FAILS TO	WITHDRAW AT BRUNSWICK 2*	161602 P184
#CONTROL ROD DRIVE FAILS TO	WITHDRAW AT BRUNSWICK 2*	160047 P185
#CONTROL ROD FAILS TO	WITHDRAW AT MONTICELLO*	160336 P437
#TRAVERSING INCORE PROBE FAILS TO	WITHDRAW AT PEACH BOTTOM 3*	155585 P489
QUAD-CITIES 2* #TIP FAILS TO	WITHDRAW FROM THE CORE ON CONTAINMENT ISOLATION TEST AT	156161 P554
#RSCS BLOCKS ROD	WITHDRAWAL AT BRUNSWICK 2*	154662 P163
#ROD	WITHDRAWAL BLOCK SETPOINT EXCEEDS LIMIT AT PEACH BOTTOM 2*	155380 P476
#SCRAM DISCHARGE VOLUME HIGH LEVEL ROD	WITHDRAWAL BLOCK SWITCH FAILS AT HATCH 2*	159159 P390
#CONTROL ROD INCORRECTLY	WITHDRAWN AT COOPER*	158686 P248
#CONTROL ROD UNCOUPLED IN FULL	WITHDRAWN POSITION AT DRESDEN 2*	155372 P210
HATCH 1* #OPERATION	WITHIN A SINGLE FAILURE CRITERIA REGION DISCOVERED AT	158292 P319
#DIESEL GENERATOR FAILS TO START	WITHIN SEVEN SECONDS AT HATCH 1*	153506 P297
#MSIV FAILS TO CLOSE	WITHIN TIME LIMIT AT MONTICELLO*	160209 P436
#NRC NOT NOTIFIED	WITHIN TIME LIMIT OF REACTOR SCRAM AT PILGRIM 1*	159550 P512
#LAUNDRY DRAIN TANK DISCHARGED	WITHOUT A PERMIT AT FITZPATRICK*	157428 P291
#LIQUID WASTE RELEASED	WITHOUT A PRIOR ANALYSIS AT HATCH 1*	156080 P307
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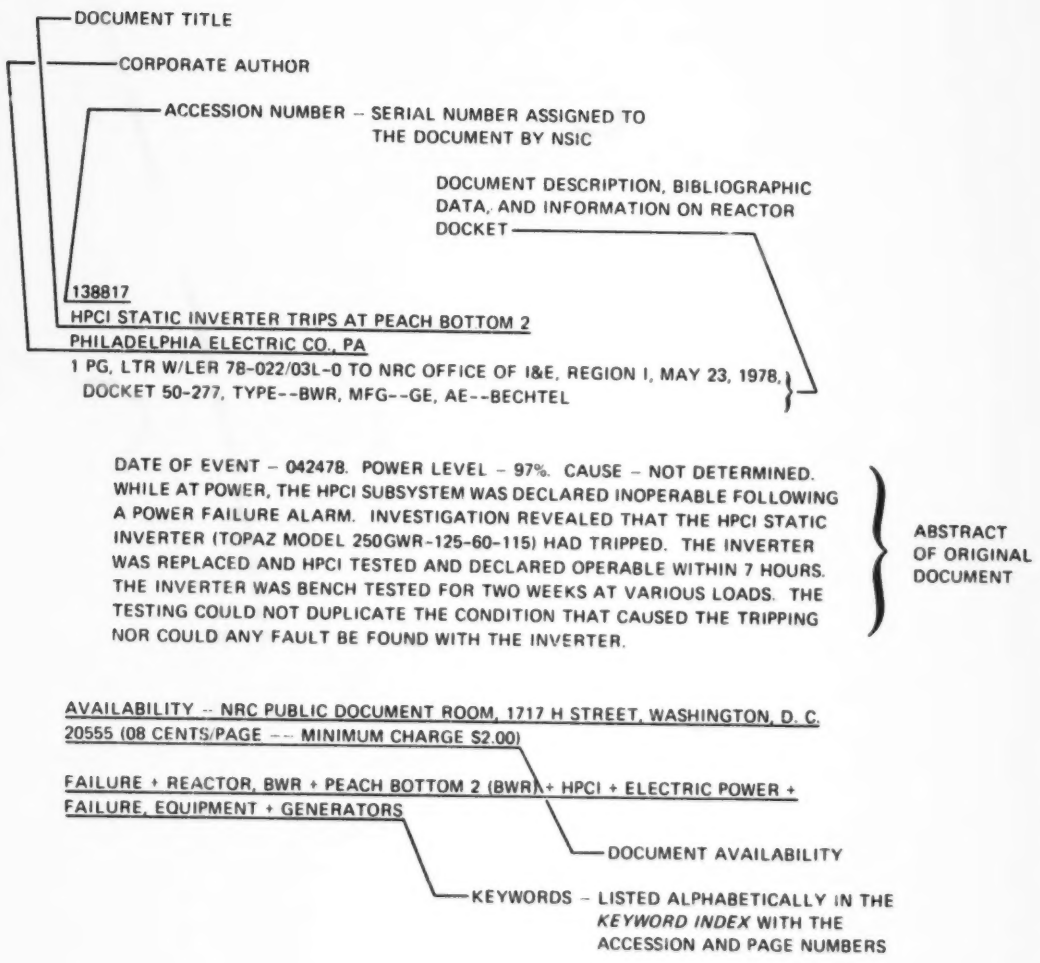
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ACCESSION NUMBER -- SERIAL NUMBER ASSIGNED TO THE DOCUMENT BY NSIC
DOCUMENT DESCRIPTION, BIBLIOGRAPHIC DATA, AND INFORMATION ON REACTOR DOCKET
138817
HPCI STATIC INVERTER TRIPS AT PEACH BOTTOM 2
PHILADELPHIA ELECTRIC CO., PA
1 PG, LTR W/LER 78-022/03L-0 TO NRC OFFICE OF I&E, REGION I, MAY 23, 1978,
DOCKET 50-277, TYPE--BWR, MFG--GE, AE--BECHTEL
DATE OF EVENT -- 042478. POWER LEVEL -- 97%. CAUSE -- NOT DETERMINED. WHILE AT POWER, THE HPCI SUBSYSTEM WAS DECLARED INOPERABLE FOLLOWING A POWER FAILURE ALARM. INVESTIGATION REVEALED THAT THE HPCI STATIC INVERTER (TOPAZ MODEL 250GWR-125-60-115) HAD TRIPPED. THE INVERTER WAS REPLACED AND HPCI TESTED AND DECLARED OPERABLE WITHIN 7 HOURS. THE INVERTER WAS BENCH TESTED FOR TWO WEEKS AT VARIOUS LOADS. THE TESTING COULD NOT DUPLICATE THE CONDITION THAT CAUSED THE TRIPPING NOR COULD ANY FAULT BE FOUND WITH THE INVERTER.
ABSTRACT OF ORIGINAL DOCUMENT
AVAILABILITY -- NRC PUBLIC DOCUMENT ROOM, 1717 H STREET, WASHINGTON, D. C. 20555 (08 CENTS/PAGE -- MINIMUM CHARGE $2.00)
FAILURE + REACTOR, BWR + PEACH BOTTOM 2 (BWR) + HPCI + ELECTRIC POWER + FAILURE, EQUIPMENT + GENERATORS
DOCUMENT AVAILABILITY
KEYWORDS -- LISTED ALPHABETICALLY IN THE *KEYWORD INDEX* WITH THE ACCESSION AND PAGE NUMBERS

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